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Constitution-Types in Delinquency

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Constitution-Types in Delinquency

PRACTICAL APPLICATIONS AND BIO-PHYSIOLOGICAL FOUNDATIONS OF KRETSCHMER'S TYPES

W. A. WILLEMSE, M.A., D.Phil.

With 32 plates and 29 diagrams



LORIDON

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DEDICATION

Genry aan Flora Isabel Mathoy en Jan Dirk Heynz, my trone halpers

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PREFACE

Ters work has two main sime :-

First: To apply the clinically originated constitutionpsychological typology of Kretschmer (with the extensions of Delbrick, Pfabler, etc.) to male juvenile delinquents. This typology roots in the mental clinic, but is of application to all fundamental manifestations of personality differences : scientists, artists, rulers, but also delinquents. special task to work out its applications to each of these fields of manifestation. Our task has been to establish, preliminarily, how the various qualities such as autism. perseveration, sociable integration with the environment, insensitivity, drivenness, etc., are manifested in all the mental dispositions and functions connected with crime. In this way our work touched here and there on general problems, such as heredity, emotional disturbances, etc., already trusted exhaustively by other investigators. But it always remains an approach under a more specialized view-point -the blo-typological or constitution-typological one. As such it can in no way, and does not appire to, replace or refute the classical works of Burt, Healy, and others on juvenile deligopents.

Secondly: To co-ordinate—as far as it was possible within the specialized framework—the bio-typologies of Kretschmer, Jenasch, Prande, Bersuna, Wierstna, etc., in so far as there appears to be similarity between the underlying blological principles of these typologies and those of Kretschmer's typology. For this purpose I bave tried to discuss the bio-physiological bases of the types as fundamentally as the present development of science permits. These discussions and expositions may perhaps also serve to direct the attention of English and American investigators to the interesting his-typological studies, now being made at different centres on the Continent.

This work is one of the products of investigations made by our Institute on vocational, industrial, and social adjustment of juveniles. The Union Department of Education supported those investigations immedially and morally, and it is our plantage to expects here our sincerappreciation of that support. We have to thank the Union Director of Frisana, as well, for kind permission to work at Enforcementies, and also the weedens and teachers of reformationies and industrial athouls for valuable assistance.

In a more personal strain I have to state that I owe much gratitude to Dr. P. Shawama, the Director of our Institute at Preteria. He urged me to the experimental supprise Statring (Born), of whom he is a deserving student. The psychological works of Statring, in their emphasis on the feeling and volitional side of the mind, particularly as analysed with the aid of psychopethological material, have been since Stawman's sound introduction of them to me, the basis of my studies.

I am furthermore smuch indebted to Professor T. Kugo. His introduced me to the psychical monism of Heymans and of Paulsen, which has provided me with a firm philosophical basis and justification for these studies on the relation between body and mind.

In this way I was absorbed by the continental investigations which i shall sadeavour to bring so the notice of mocountrymen in this work. Community of scientific interest is, to may mised, a potent factor in the establishment of true internationality.

W. A. WILLDER.

Private Control Laboratory, Univalent of Presents. 48-9, 1991.

CHAPTER I

PROBLEMS AND ATMS

z. The Rolesion between the Delinguest Act and the

During the last fifty years the attitude towards crime has charged fundamentally. Where formerly the act of crime and its immediate external causes were placed in the centre of importance, the modern schools of penal justice attach more importance to the criminal himselfto his personality. "The convict's attitude towards justice, his entire past, and what is to be expected from him in the future smust determine the nature and duration of punishment," said the well-known suthority v. List! at the beginning of this century when he opposed the views of the classical school. Particularly, the punishment was no longer inflicted as a rehabilitation of the violated sense of justice of the community. Punishment had gradually come to be a measure either to reform the dallnought, or, if he were irreclaimable, to protect society from his onslenghts, bloceover, it is not only on the disposition to crime of a particular nature that more stress is now laid, but the Austrian School of Criminal Biology under Lenz, and the Bayarian grading system of punishment (Studenstrafvollaug) particularly, have in the last decade extended the field of investigation and consideration from the criminal dispositions to the entire bio-psychological personality. The criminal act, accordingly, appears as the realization (Aktualisiering)

Der Stejensproßenling, publisheil in 3 volumen by the Bavarian Ministry of Justice. Them works anoth the referred to for detailed treatment. I shall only touch them magnificant approximate as far as they chiefe in my special thems.

CONSTITUTION-TYPES IN DELINOUENCY

of a potential functional system, and this system includes mental as well as bio-physiological factors. All these partfunctions must be understood or explained in their interrelations in an assume unitary and structural whole of the psychophysical individuality.1

The American psychiatrics Healt," and the British psychologist Cyrit Burt, have (mainly since 2010) made similar studies on all the factors causally connected with delinquency in Inveniles. The intelligence emotional and volkinnal peculiarities, and also physical qualities of a very large material have been carefully considered by these authors. But their approach of the individual delinquent in his mental and obvaiced zauke-up is not identical to that of the German-Austrian biological school. Some of their Sadings, such as infantilisms, physical over-development, etc., have a very intimate connection with our blo-types. The main aim of Healy and Burt. however, was sweeral causal relationships, rather than typological studies. The bio-typological approach of the delinquent, as compared with these were valuable yet swherel treatments, will become clear as we proceed. The study of the delinogent personality, therefore-

both twoologically and generally—has in our time become no nelf-evident that we are inclined to look down upon the earlier attitude with some vezation. We know now that punishment is not the only problem that demands a profound study of the psycho-biological personality; Protessor Messer shows very lecidly that all three of the main problems of criminal procedure—(a) Imputability (responsibility), (5) Corriginality, and (c) Punishment, can only be solved when the adequacy (correspondence, agreement) of the act of crime to the full personality. and the adequacy of the personality to his environment is obvious. Discrepancies between personality and act. and discrepancies between personality and environment, call for further investigation before any of the three

Dresler Tagnug, 1925, p. 129.

Rolly, The Patiented Deliment, Haston, 1931.

Bert, The Young Delimpant, Landon, 1922.

problems can be attacked. It must, however, from the outset be distinctly understood that with this emphasis on the entire his-psychological personality no support aiven to the theory that the delingment personality is a distinct species or atavistic degeneration as proposed by Lombroso. This writer deserves much admiration for what he has done to direct attention on the whole personality of the criminal and atmosfy also on the biophysiological concomitants of severe criminality. But criminality is not a biological or psychological unity connected with a definite unitary type." Grible tries to make this clearer by stating that criminality is a form of life (Lebensform) and not a type. From the social and ethical points of view the various criminal manifestations seem to have more in common than when they are considered from a psychological or biological point of view. The same confusion between social and normic (taleological) types on the one hand with bec-newchological (etiplogical) types on the other hand, is also made in other fields, e.g. psychopathy, where the "matchie" (Halticem) are more of a social economic (teleological) class than a blo-psychological (etiological) type, because the biopsychological causes (ethology) of instability may be very different in different members of this class. The extrame diversity and complexity of types of criminal personalities will become more and more obvious as progress is made in the study of psycho-biological types and their biological types, and their application to criminalities.

2. Intilligence of Delinquents

When more emphasis came to be laid on the delinquent himself, instead of on the delinquent, act, the first tendency

Mittelbrugen der Hr. Dio. Ges., pp. 32, 96.
Haphe, Zeidebrig f. Augmentüb Popeles. Bd. 28, p. 18, und Hreterch mer Appeipe. and Chronice, Loudem, 1925.

Milleibungen, p. 10.

Vido K. Beknadder, Die Psychopolitischen Pempaliphheiten, Leipzig. 1928, p. 29,

CONSTITUTION-TYPES IN DELINGGENCY

was to attach most importance to a cognitive aspect | the personality his intelligence. Goddard (1914), the authority on feeble-mindedness, is very sweeping in his emphasis on mental deliciency as the main cause of crime. He points out that the attitude towards the delinguent has some through an evolution. It has developed from the old idea of vengeance by the god. Justice, fd the principle of nunishment as a determent, and, finally, to the more recent one of understanding him, of treatment and reformstion. But studies on the environment, according to Goddard, have shown that there is a limit beyond which the congenital endowment does not allow its possessor to improve. There is a limit of perponsibility, too. Feeblemindedness explains the criminal type better than does hereditary criminality. "The so-called criminal type is marely a type of feeble-mindedness, a type misunderstood and mistreated, drives into criminality for which he is well fitted by nature." It is goes on to give the percentages of feeble-mindedness from sixteen institutions for delinguents which show that " an estimate of 50 per cent is well within the limit". But he admits that the higher controls are also defective, thus already indicating the importance of temperament and character factors. In fact, he mentions that the other factors apart from Intelligence defects are: environment and temperament: and in his special treatment of Delinquency, Goddard particularly states that "no greater contribution = the problem I definquency has ever been made than the concept of the psychopathic child ".1 The psychopathic child is, as we shall see, one who has an unbalanced temperament and character. It is significant also that Goddard found a comparatively small amount of crime in his family histories of feeble-mindedness (10 per cent). Another authority who investigated several hundreds of inveniles in the Chicago clinic, and published his

monumental work in 1915,2 viz. W. Healy, also strongly Goddard, Freite-ministrate, fix cause and assequents, New York, 1914, 1923, pp. 6-19.
 Goddard, Joneseis Endingentsy, 1921, p. 28.
 Happy, The Indinsistant Dallagents, Busines, 1914 and 1921, p. 447.

emphasized mental deliciency as a cause of crime. "Undoubtedly 10 to 30 per cent, or even more, of prison and reformatory population, if tested, would be shown to be feeble-minded"; and further "mental defect forms the largest single cause of delinquency".

Later investigations, however, have shown that though intelligence defects are significant, especially in juveniles. first offenders, and sex offenders, the exactional, impulse and volitional side of the delinquent personality deserves. foremost importance. Cyril Buri's book is based on intimate knowledge of a large city; material and elaborate tests prove conclusively that the intelligence factor, though "notable", cannot explain the bulk of delinquent personalities: only 8 per cent of the children tested " are backward to intelligence by at least three-tenths of their ages ".1 Another significant feature of the intellectual life of delinquents clearly isolated by Burt is their bankwardness in education attainments. This fact, fully corroborated by the later researches still to be mentioned. indicates either a detrimental environment or defects on the emotional and will side of delinquent personalities. Brooks (1929), points out that invenile delinquency is not so simple as would appear from early invertigations on faeble-mindedness. He shows that 25 per cent of group of 1,212 juvende repeated offenders have I,Q.s. above the 30 level (limit of mental deficiency) of the Stanford-Bines scale. He also quotes Healy and Bronner's later studies which show that in a one juvenile repeated offenders 72'6 were "definitely mentally normal". A recent investigation by Showson (1926), led to the following conclusions in regard to the intelligence degree as a cause of Delinquency: (a) "In werland abstract intelligence, largely indicative of scholastic success, the boys are very inferior to non-delinquent children." (6) This inferiority is less marked in non-verbal concrete intelligence. (c) Tested with the Stenquist Mechanical Aptitude Test,

Cyril Burt, Flor Foung Delitepasst, London, 1925 and 1927, p. 300.
 Brocks, Psychology of Adelmanca, New York, 1926, p. 483.
 Slavnon, The Delitepasst Boy, Buston, 1936, p. 181.

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the delinquent boys were even slightly super for to a normal group. (d) The results of questimmaires on defective emotional make-up filled in by the boys show an intimate association between this and delinquency. Perhaps the most magnificent study is this directions is that by Professor Murchison. He compared the estable of the Army Alfa Test applied to the soldiers from various States with a large number of prisment from the same States. The general conclusions reached by Professor Murchison in regard to our present problem are the following:—

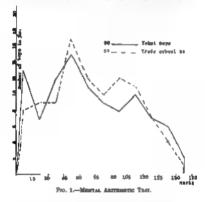
- (a) "In turns of Alpha scores the criminal group seems superior to the widte deaft group" (soldiers).
- (b) "Crimus of deception and fraud are committed by men of no mean ability." "more than half are superfor individuals." "About helf the individuals who commit crimes against sen are inferior individuals."
- (a) "Racidivists seem more intelligent than are first offenders," but not in all the types of crime. In fraud the first offenders being more intelligent.
 - (d) The criminal group is much less biterets than the army.

Murchista anomingly admits that temperament may possibly play the chief rôte in the commission of all crime. In this connection, the argument of Haplas is also interesting. Haplas, working under Professor Stern of Hamburg, argues that read crimicality plays a relatively insignificant rôte in the members of the fatmous feeblanding in the funding families investigated: Criminality in the funding Kalificak, 0.3%; Rufet, x0%; Nant, x0%; Pehr, x0%; Markus, 20%; Hill Folk, x0%; Dack, x0%; Julex, 50%; Zero, y0%; Viktoria, 390%; Anable, 880%; The high percentages in the last two cases Haple explains as due to the inclusion of incignificant home troubles, insults, false alarms, etc., in the inventory of crimes

Our own results tally to a large extent with the portwar researches. In arithmetical (Fig. 1), geometrical

Curl Murchison, Criminal Fuldingson, Mantchastin, 1928.
 Zeitschrift f., Augustralis Proch., Dd. 30, p. 10.

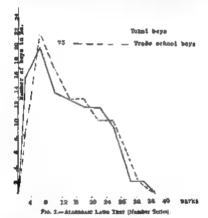
(Fig. 4), and algebraical (Fig. 2) calculations, the reformatory boys of Tokai, with an average age of 16-19 years, perform more or less equally to the South African trade-school boy of a similar age. It is striking, however, that there is always a certain group among the delinquents



who are very inferior, even though the bulk coincides with the non-delinquenty. This corresponds to a finding of most of the sarker investigation, including Murchison, and may to some extent explain the over-emphasis laid in pre-war works on the question of feeth-mindedness. It must also be swentinead that in South Africa feeth-minded delinquents are to some extent isolated immediately after conviction. In mechanical applitude (our special psycho-technical late) the results are also very interesting

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(Fig. 3). A large number are below average, but more Tokai boys than trade-school boys come above 74 per cent. This indicates that on the practical intelligence side a good number of delimpents are very superior. In fact, in



a few cases, this exceptional endowment for practical concrete problems was a strong incentive to delinquency as the following ensurable will illustrate:—

Case 1.—Age 17. Tests show that in bugical sequence, complicated mental tasks and mathematics, he is brilliant of his interest is aroused. But his most outstanding abilities he in originality, arousequy, and showe all a retartable

insight into concrete mechanical problems. He is quick and energetic, but not at all relimble or gersistrot at monotonous routins necessation. Boyrichly jorial, unreflective, undersorted, and self-willed. jost m fond of a good argument m m integrating mechanical problem.

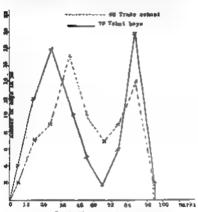
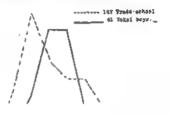


Fig. 3.-Michaelest, Affresia.

Frequent change of work. About 15 changes against him (of which only low proved) in home-breaking and stading. Entered stores and garages, etc., with special keys, or in such a way, that the policies were basilised in their efforts to discover his means of ingress. Stole cars for joy-rides out of garages and replaced there some night. Often took only a bunch of keys from a place to indicate that he had been middle. Scolic sides on a relative. In interview it became

■ CONSTITUTION-TYPES IN DELINQUENCY

completely evident that all his escapades were more of a Chinese puzzle and interesting problems which he both created and solved, than real criminal agoistic maniestations. He snjops a housebronking westere just as he enjoys an argument. For him, both not intellectual exercises which he likes to carry out amonastily.

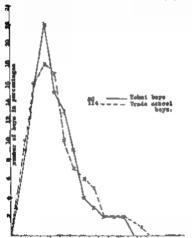


Pro. 4.—Groupersonal Communication (Rybellow).

Also, as far as manual skill is concerned, the results of Morede's ambidenterity test 3 show a complete correspondence between the Toloal reformatory boys and 174 trades-school boys tested all over the Union of 5. Africa (Fig. 5). The educational attainments of the Tokai boys (100) show an average of Shandard 5:2. This is certainly law when one considers that Shandard 5:2. This is certainly law then one considers that Shandard 6:a et the age of 15, is the compulsory limit set by the law for loaving school; further, that the largest number come from towns where school education is within easy reach, and that most

¹ For particulus wine to F. Cion, Hamilton's Psychotals. Highways-profitogus, Hallo, 1988, p. 404.

skilled artizans have to reach the Standard 5 limit in order to be legally appressiond. We must also bear in mind that all these boys are older than xy years.



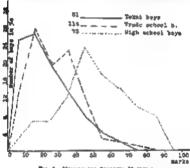
4 0 58 16 30 34 29 32 35 60 64 68 52 36 60 60 stateber Fro. 6.—Two-samo Tour fel. Mondel.

Such a low emedard of school attainment or literacy is, as Murchison has shown, more a symptom of other factors, such as temperament, temacity, than of an inferior intelligence.

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Our survey of previous investigations and own tests accordingly seem to justify the following conclusions:—

- (a) The intelligence defect is not the main cause of delinquency.²
- (b) Especially in juvestile delinquents a certain group appears to be remarkably weak in the store abutract intelligence.



Pro. 4.-Messony ros Saveston Mattenda.

- (s) Juvanile delimposets appear to be generally weak in educational attainments.
- (4) Temperamental and/or surriconnectal factors must be all-important as causes of delinquency.

3. Temperament and Character factors in Delinquency

Preliminarily, we may say that temperament and character comprise the emotional, impulse, and volitional factors in their widest applications. We shall endeavour

³ This view is also supported by the Gamma-America school of Criminology, Stationatesfeeding, 1889, p. 1831.

to give more definite delineations in a later charter. In the so-called psychopathic personalities, the abnormality pertains to temperament and character factors. Psychopathy is a functional disco-ordination, disproportion and umbalanced condition III the emotions, feelings, impulselife, and activity.2 It is difficult, though very pecessary, to differentiate between psychopathy and real psychotic conditions. Taspers and Schneider a proposed the criterium of comprehensibility, appreciability, possibility of empathy, in the case of usuchonathy: whereas in the psychotic "process" the personality is transformed entirely and irreparably. The biological and physiciarical bases of the "process" are usually also inexplicable. Between the definitely insure and the entirely normal we find this wide characterological playground of psychopathy. The demarcations and definitions are very flowing and arbitrary. Burnke 1 says of them "Fundamentally all those functional and psychonathic disturbances are rooted in the healthy mind and as soon as one investigates their first and most subtle manifestations they all finally dissolve into normal psychology." The race hygienist, F. Lens, helds that psychoneths constitute to per cent of the general population." This is also the opinion of Professors J. Lange and E Rudin from the Minich psychiatrical institute.4 The criterium by which to distinguish them from real insenity is also fairly varue. Inspers' suggestion, supported by Kurt Schneider, that "comprehensibility", "appreciability", "empathy", is possible of the personalities of psychopaths, but not of the insane, is only partly valid : The researches of Bumke and Carl Schneider 6 on the real instants of Schizophrenia. show that the mental life of these putients can within

Biratbaum, Psychopatishche Fesbucher, Lelgrig, 1998, p. 10.
 Bart Schtriefer, Psychopalization Psychocialization, Lelpzig, 1968, p. 8.
 Dumbe, Die Germen der Genisipe Gemeileche, Neuzel, 1929.
 Stefentreffenite, 1989.
 E. Minim, Psychostrieche Intellabon aur Strictionen, 1921.

Schnehler, Psychologie de Schiebberen, Leipzig, 1899. Much depends, of course, as van der Hann "Edeportus und Cherakter", Z'imhrif f. Neur. v. Paychest, Bd. 50, p. 431, has superintentally varified on the temperature of the passes who attempts to "waderstand". Schizoperum little understand "Schizoperum little understand "Schizoperum little and "

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Emits also be "comprehended", "appreciated," viz. as a type of semi-sleen. However, we need not define the term "psychopath" cloudy. For our nursom it suffices to know that the term stands for temperamental and character abnormalities as distinguished from intellisence defects, and as such forms a very suitable field for the application of our typology. Since the "psychopaths" are not normal and also not insure, they present, as We shall see in our discussion of the nevchorathological method, exactly the material for verification and further elaboration of the bio-typologies.

With repart to the role of psychopaths in criminality, many prominent authorities agree upon the wide prevalency of these people in delinquent material. Koch, one of the founders of the term, says : " I have never known born criminal other than a psychopathic one." 1 Birnbaum states that in all criminal acts, psychopathic elements play the main part, and he mentions further on that v. Liszs, who still haid so much amphasis on the social (i.e. not personal) causes of crime, also took psychoputhic strains as the most characteristic qualities of criminals. Throughout his classical treatment Birnbaum. directs attention on the feeling factors at the main determinants in mental life, especially in motivation and action. Similarly, Michel, of the school of legal medicine in Gras, Austria, in a very intensive investigation | 102 habitual criminals, found 240, i.e. 83 per cent to be asychopathic. Roles found 88 psychopaths in a total of aga investigated sovere criminals. Professor Kramer 4 found over a period of many years, at the invenile court of Berlin, that 50 per cent of those convicted were mentally abnormal, and of these psychopaths formed a considerable part. Many other prominent authorities agree with this. In the relatives of delinouents. Professor Burt 5 (who prefers to

Burt, The Young Delinquest, 1937, p. 32, 344, 432.

Quoted by Michal. "Dur Psychopath. Gew. Ver'archer." in Milliolanger for Krim. Bio. 1839, p. 63.
 Birabange. op. oit., p. 6, 10.

Mitaliangen, 1900, p. 25.

Perchopals, Vermingung and Shuffellighed in Jagandeller, Langen-

keep the term for a more advanced stage, qualitatively different from the normal, and therefore does not specof psychopaths in this sense) found that "temperamental disturbances with smeal symptoms not only recur far more frequently than any other one group—physical, intellectual, or psychopathological—dhey recur more frequently than the whole of the remainder put together." But also in the delinquents themselves Burt found that temperamental conditions ("instincts and emotions"), are of enormous importance as caused of crime.

On account of the flowing demogrations between borderline cases of temperamental and character disturbances and normal cases, we have in our own research not attempted a numerical determination of the psychopathy involved. On the psychical side we found numerous indubitable abnormalities such as strong distrust, inert. iame social response, explosive emotions, extremes of energy forms, sexual perversions, extreme unreflective optimism, etc. In the sequel we shall have ample opportunity to demonstrate such abnormal accentuation in the framework of our typology. The pervalence of these disturbances in our own material and in that of more experienced investigators seems to be unquestionable. This fact is a proof, too, of the importance of the feeling and volitional side of the mind in life as it has been amphasised in the works of Störring. But this fact also indicates the value of typological studies of temperament and character for the problems of delinquancy; on the other hand, in the light of our discussion on the value of the psychonothological method in studies on feelings and will, the wide prevalency of psychonaths in delinquent material premises a rich field to further our typology.

4. Heročity and Delinquency

We all begin to think biologically when we deal with life processes and it is, accordingly, not recessary to elaborate

Skiteren, "Typology of Engagemen," Psych-Tack. Stobrift, Setta, 1681.

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on the value of heredity or environment in the etiology of crime. For detailed, systematic treatments, the works of Burt and Healy must be consulted. We need only indicate the saneets relevant to our special form of approach. The psychomethic constitutions are generally accepted as hereditary or at any rate convenital. As Bumke says, we cannot determine yet whether they are due to germ-injury, e.g. in alcoholic parents, or to hereditary germ structure. Psychonathy and crime, anyhow, are intimately connected according to our survey of the best informed investigations. Accordingly, reach of the intrinsic criminal mind cannot be due to environment. but is congenitally determined. Also, the morphological features of an individual are generally taken to be relatively little influenced by the environment. Facial and body features are both popularly and scientifically taken to be largely hereditary." If we are, therefore, able to indicate constitutions between delinquency and biophysiological constitutions, this will also indicate the importance of heredity. The studies in heredity by Mitten. Hoffmann. Reisa, and Ziahen, however, give an entirely new face to the problem of the beredity of criminality. They show that a disposition to criminality or easy other complex mental aptitude such as munical genius, leadership, stc., can be built up synthetically from hereditary factors in the different progenitors, which original factors by themsalves may have been harmless in the case of delinquents. Of worthless in the other two instances. Only the new biological synthesis produces the complex and strange result: an explosive father and an unstable mother is an outrageone third." Millen has in this way indicated

³ Birchtum, Psyskelpsinske Fathender, 1998, p. 3.
⁵ Dr. M. A. van Herwerden of the University of Obrecht in his book, Zrijelyshais by den Menach on Empositoris, University of Obrecht in his book articles of the Empositoris, University, Photeenmieri), a tryical families (e.g., Powerboux, Habstenge, Hobsenmileri), a tryical families (e.g., Powerboux, Habstenge, Hobsenmileri), a tryical family family may generations. Hascher, the generation configerate by protecting, for fourture, analysis of the Problems configerate by protecting, for fourture, the Habsteng typical face to functions of the protecting generation. His Christophia, Julie Problems for Christophian, 2008, p. 167, M. Lange in Thermodynamics, 2008, p. 167. Expectations and Chescolor, suitable, p. 167.

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that the literary senior Bilinesterne Bilinoon inherited a plastic phenicary from one parental side and critical intellect from the other side. Only a happy combination of the two produced the genius.³ Ziehen claims to have demonstrated that Schomman inhanted suscial tasts from the maternal line and poetic phantasy from the paternal side.1 If such inheritance-syntheses are possible, all psychopathy and similar disturbances in the ancestors of delinements become expendingly significant. Burt's finding of "intermittent outbursts of instinct and arootion " without being " flagment breaches of the law ", and also his finding that of all environmental causes those centring about the family life are most disestrons, become very alguifeant under this new aspect. There is another similar aspect of inherited temperament which Hoffmann has shown to be very significant and that is antinomies. disharmonies, within the personality, Mutually antaronistic bereditary dispositions lead to temperamental and character disharmony and even to disruption in the personality III mental disease. It may, therefore, Do possible that obseracteristics still normal in each of the parents will prove to be pathologically disharmonious When avothesized in the offencine, and so lead to unexpected manifestations.

The question of hereditary influences becomes more and more complicated with sew discoveries in the field of human biology. Epiplesy, for instance, seems to depend, In so far as it is hereditary, on recossive factors, so that absence of the malady in the mearest progenitors does not exclude IIII. heredity. The pirture becomes more complicated when such recessive hereditary factors are at the same time sex-linked, or even more complicated when only transmittable in either the male or female generomplex, as e.g. colour-bilinchness. Until all the problems of recossive factors, limbages, hereditary "wint characters", have been better studied in humana mental life, nothing can be decided. Even when there is definite any convenental.

^{*} v. Horwerine, op. ck., p. 270.
* Hart, op. cd., pp. 50 and 187.

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influence, as in traums-epilepsy, the main cause may have been hereditary dispositions: Kneweshoot has proved in a material of 700 epileptics that trauma-epilepsy is also concomitant with definite sometic constitutional types.1 Hoffmann formulates the relations between constitutional and envisonmental factors in these words: "All acquired qualities are only a new pronouncement (Augustigung) II the constitution." In some instances the constitution in the main determinant, in others the anvironment, but the constitution is always implicated. The researches of Lange * on identical and ordinary twins have shown that, so far so criminality is concerned, out of 13 pairs of identical twins To were strikingly concordant. In their criminal diagnositions, while out of 17 ordinary twins only a were concordant in their criminal dispositions. In the identical twins the time of first conviction and the nature of the crime were in many instances remarkably concordant without the twiss having been subject to the sume environment. This seems to indicate that where the individuals developed on one and the same placents. i.e. where the germ plasme and prenatal conditions were more or less identical, the subsequent careers proved to be strikingly concordant, but in individuals where the form plasma and preparal conditions frence, different planents, etc.] could be different, the subsequent carsers proved to be discordant. But though such experiments seem to indicate that the concentral determinants deserve un-emigent consideration, we may readily admit that the environment acts pathophystically on the delinquent outcome. The environment provides the means through which the innate dispositions are manifested; and especially certain psychopathic cases the psychopathy consists in this extreme plinbility, suggestibility and case with which such individuals are misled. Especially where psychopathy is complicated with feeble-mindefinessas is often the case according to Bimbuna—the environ-

Kerpertun, Epfleynin, and Chambelov," Zaiszabijl f. d. Set. Noorolegte und Psychiatra, fid. 11t. p. 506.
 Hoffmann, ep. eit., p. 60.
 Vorbreibet als Schiefend Chimbathity in Policy, Lulpsig, 1979.

ment will have strong influence. Also, we do not really co-ordinate certain forms of bodily ementitution with delinquency as a whole, as Lombrose attempted to do; but we aim at finding how certain bio-psychological types are manisested in the seels not delinquency, in the same manner as we larve found these types to be manifested in various other forms of life, such as art, science, society-life, religion, recension, etc.

In our material environmental factors such as poverty, abnormal home conditions, companions, unemployment, or unsuitable work, etc., were very conspicuous. Particularly the last-mentioned condition could be acientifically ascertained by our investigation, because we tested all the boys psychotechnically. One case may be instructive to must be.

Cate 2.-Age 19 years. Tall, powerful, muscular type. Quick in his ability to sem up a position, not easily distracted in complicated mental tasks. Very good at mechanical antitude test and can work well at muchine controls with both hands. But, as so freepently occurs in these powerful meacular tyms. he is very weak at delicate hand or arm movements. I is not factorested in delicate. artistic things; and in a spontaneous drawing test. III draw an anvil and a heavy hammer. In the interview he informed me that he was always intensted in machinery and blacksmithing, but power had a chance in these directions. On the constary, the only work he could obtain was caterior on a train. This he disliked, because, as can be expected from our tests, he was totally unfit for the delicate movements and balance of crockery expected from a waiter on a train. He then worked as a labourer at £4 10s, per month. Such unskilled work for a boy with a pelf-ameritive temperament and a good theoretical and practical intelligence, was just as ansuitable. With his calculative powers, lack of money, uninspiring work, it is very natural that he should turn to the paying concern of illegitimate tiquor dealing with natives (vide Case 34 and Fig. 39).

CHAPTER II

MATERIAL AND METHODS

4. Nature and Ouastily of Material

In the psycho-hiological typology of Kretschmer with which we are majoly to deal, the adult somatic characterlaties, such as hairage, muscularity, fat accumulation, anthropometrical measurements, are importance. Many of these characteristics (fat, terminal hair, etc.) only start to develop after puberty, and even much later in certain instances. Although the types could to some extent be recognized before puberty, it is always better at the present stage of the typology to take subjects beyond the age of 16. We therefore considered juveniles between the ages of 15 5 years and gr'6 years only. Of these there were not in the invention adult reformatory at Tokai, and 60 and 12 in two successive investigations at Housepoors respectively. With the aid of the Union Dent, of Prisons and the Union Dept. of Education, we investigated these boys over a period of two years by visits to the places concerned.

6. Mathada

(a) Interpretative Observations.

The actual investigations proceeded in the following manner:—

The reformatory was visited by myself together with one or two well-trained post-graduate psychology students, who have had years of experience as practical teachers, to assist me. Such visits lasted from a month to two-and-s-half months.

All the immates of the institution, upon their concurrence, were subjected to a series of psychotechnical tests,

emporising mechanical autitude, finner and magnal skill. drawing, memory for fouris and impractions, insight into concrete spatial relations, cir. Two to three boys were taken into the room together and given these tests individually. It took about three hours to complete each set. The social atmosphere was very free and natural. because the boys were not forced to do saything. Between actual tests they could converse with one another, sometimes enjoyed the attempts or failures of one another. and were pleased to escape the gloom of the school or workshop for a moment. Experience has taught us indubitably that the reformatory boys are strikingly suspicious in connection with atranse government neonic who come to them. They are desply under the impression of the detectives' activities. In one of our tests the subjects had to underline the word which they most disliked, and the word " detective " was always shickly underlined by the reformatory subjects. One of the boys asked me whather there were any secret cameras or X-rays in our apparatus. All of them thought that we were "stud doctors" (psychiatrists) who came to test them with a view to commitment to a mental institute. Accordingly, if we wanted to obtain any valuable information about their real temperaments, it was necessary to centure goodwill. mutual trust, etc. We particularly endeavoured to gain their triendship and goodwill by making jokes as we continued, about the tests themselves, such as-" Don't you think that the man who made these silly tests was an escaped furatio?" We repeated to them that we were no Government officials, but poor students who paid our own fares, etc. We can assert in full confidence that in most of the cases we gained their complete confidence and goodwill in the course of fourteen days. Such little incidents as handing back to them their illegal tobacco when discovered, countiving at a secret smoke, did everything to show them that we intended to be friends rather than guards over them. In their house-committee meetings, their swimming, their sport pavillon, their work, we saw them daily, and everywhere aimed all two things :

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First, to obtain an all-round and intimate knowledge of their temperarents and characters, and, secondly, to forter that goodwill said elmotional rapport which I dem to be necessary to know any individual. A comparison between the confessions of the boys in the interviews and the actual history as revealed by the records and Court guidence showed us that we had gained the confidence of most of them.

With regard to our first stain sain, an all-round and initizate knowledge of their temperaments, we adopted the following simple method: all the observers always made short notes about every occasion on which they encountered the boy in various fields, starting with the period during which he was psychoteclevically tested, to the occasion of anthropological mestauraments, the occasion when his photograph was taken, ill general intelligence was tested and all the other systematic and casual encounters. We always placed the temperamental and character side in the foreground of our interest, but I was not done in a questionsaire form. This we did purpossly, as the questionsaire is necessarily a limitation, and also this method proved less effective, in our experience, than the free characterization.¹

Apart from these systematic encounters, we had ample opportunities to watch them at animoning, on the football field, in their debating society secetings. In their boys' court, while at work in their letture-hour gardens, in the workshops, etc. A psychologically trained observer must, over a period of a few neutries of such dully contant, find innumerable opportunities to register valuable impressions. We shall offer a few out of our valuations.

(1) One of the boys has examped. Describins is sufferced more severeity. The talker boys arrange to "thrash out" secretly a few newcemers who also talk about absconding. In the recreation how the sudual is amounted; of the three purished one is an Athletic Pylante—be is not the ring-bader, but jeungs in first to require his "belting." The

¹ Cf. also W. Felera, 6th Ecopres f. Enpt. Psychologic, 1923, p. 205. He found that a hether general important of a printenality was gained from from characteristics than from a psychogosphic economic economic.

ringleader, an Athletic Leptonome, waits to the last when the betters are tired and them gots an insignificant threating. In have the impulsive Pylmic versus the heatating, calculative Leptonome.

(2) Two Catholic boys have to remove their reseries to be anthrepometrically measured. The one puts it down carefully, the other jorks it off into a corner together with his shirt. By themselves, these incidents are valueles;

in a wide series they are extremely significant.

(3) While we are teating, one of the florys contribe the room sports a small wild animal compting into a well. A group of five go to dialocate it. A Leprosomic Athletic musers then and places such one on a point, starts with the havey stones himself and does not worry about the safety of the smaller case down induce him. We have here the cold military tron.

ones down below him. We have here the cold rullitary type, (When interviewing the boys. I placed a thair some distance from the table at which is sait. A jovial Pyland promptly placed the chair searce to me before seating times!, saying: "No. air we are going to talk together, aren't we?" The reasoner is which they narrate their stories", it some cases very spirited, in others is more to the prompt of the

is from our point of view very significant. The way they greet every morning is just as significant.

(5) For photographing the boys, I had six slips; with these were one pair of bathing truckers. One of the boys, in special of centrary suggestions by the others, would not stand in mything size than the bathing innickers. Another boy only agreed to be photographed it slace alone. Sont these boys happened to be Leptocomes (the first mentioned even had ferminatic commits suggested, and these observations therefore fit is spleadidly with the reserved senditivity of the Leptocome.

Needless to say, our observations fiel not always work out so perfectly, at the first glance. Successive cross-sections or views of the same bespeciament often provide to contradict one smother. The same happened in connection with observations by different observers. But in most cases we were able to explain such discrepancies as our knowledge of the cases in question increased. This point ill admirably illustrated by the following scample, fully described in case No. 44 (para. 36):

My own observations were: show and weak energy at tests; sallen, disinterested expression; does not associate

freely with his fellows to the testurous : inferior feelings probably: reserved and little initiative: fatalistic attitude when tests slightly difficult. My colleague, however, disagreed with me, and stated that he observed the boy to be of a sociable disposition and well-liked by his follows. My own observations at the swimming pond were: Evpomenic temperament, shows much energy and talks enthusiastically. On other occasions, too, I observed that he was bovishly frank, even mischievous at times. His records also indicate that he is an undounted adventuriet and sexual enthusiant (gonorrhea). The case became clear when we found out that the boy was very unpersistent and easily discouraged, especially in achalastic tasks. He haten school, and the test room atmosphere. The result is that, particularly before he knew us well enough, his courses in the tests almost failed him from the start,

(b) Records.

Apart from these observations, we perused all their records for part history, convictions and court procedures. We paid special attention to she methods amployed their delinquency. The mere general types of delinquency, such as theft, burglasy, etc., do not say much from a temperamental point of view. Under certain circumstances common their may entail more energy, optimism and daring than house-breaking and sees seems.1 The types of delingamov asperally spoken of are legal or normic and not psychologically orientated types. All such details as: the time of the day or night when a crirse was committed; whether in common or alone; if in common v. Who took the lend; the subsequent behaviour, e.g. 20 protecting themselves from discovery; the quickness and completeness of confession when changed were carefully upted.

(c) Letters.

Furthermore, at Toksi we read through all the lettersapproximately 700 letters written by the boys over a

Professor Böhmer (Menatschrift f. Roim, Pr., Bd. 19, p. 207) also lays. special emphasis on the usual procedure of making correlations between the psycho-types and the rough divisions of trine, is took of between types and definite forms of motivation and procedures in trinos

period of two-and-a-half mouths, without their knowledge. The Christmar mouth was included in this period and proved to be very significant, because many boys received presents and delicaries, and it was generally extremely instructive to note the different attitudes taken towards "the old folk at home." The following extracts from letters may give some idea of what we were able to glean from this haredofter somewhat neglected field if information:—

(1) Subject R. - Wrote pine letters in two-and-s-half months. i.e. two more than the average. Notes saufe : optimistic : starts with clear conscience this year; will yet make a man out of himself; little family buts and news, in the manner of a girl away from home: "poor daddy"; God will keep his record clean; encourages "ene"; printary functioning; swines from one amotion to the other, yet always planant and enthusiastic; a woman's temperament; hurrled. tragular, yet cultured handwriting; "I would write a long letter if I had more news " : but will be home soon ; many K's to mother; short sentences; husinessilks discussions about his trade-can earn (3 10s, per week (12) when he leaves reformatory : pleased that Christman over, because last at Tolcas: asics cousin to come to see him, will shave himself nicely for the occasion and pick her a fine bunch of flowers : asks seece : wants to explain to her what a fool he was so abscord; very analous that she should come; asks mother to come and see him; has not beard from her for a long time; she should come to their cricket match on Saturday; unreflectively anti-emotionally religious; prayed together with his pul every night; asks toothpaste, handkerchiefs, soup, and razer-blades; weak punctuation; Mks lady-friend to come and see him.

This subject happened to be a Pyknic, of the hypocumble variety, with some neutralinity; lively, full eyes and reddish face. The labile emotions, sociability, naive optimism, childridg, mareflective and spirited attitude towards life are lainly evident from his letters.

(2) Subject S,—Athletic Leptonouse. Wrote three letters in same period. Notes made: intelligent; calculating; begins to adapt to reterminatory conditions; resconsible to brother; need not wanry about him; mands to earn more while in castody, knother should with to authorists to get

him into a labour culous where his work is paid : came into reformatory through bud company and no lawver to defend his case. (In reality, he was the man who arranged everything for his companions, forged and stole chosues, etc.)

(3) Infantile Leptuscom on the porderline of feeblamindedness. Notes work: weak spelling; incoherent sequence : compolities that he cannot read mother's letters : longs for hoose; rows of X's (kisses) to mother; smalls physicically; will hav his older sister a doll when he comes out here; when she marries she must send him a photograph; extremely primitive ideas; shout caives, family, fruit : very fatalistic religion on a low level ; will never do wrong again it only they would set him free.

(d) Experiments directly implying Temperament.

Though, as we have pointed out previously, the trained observer can glean valuable information in regard to temperaments from any task or situation presented to a subject, we have also made four experiments on the Tokal and Housepoort boys, which are more directly related to temperamental factors :-

(a) We took an emegram from each boy in the ordinary manner with a Mosso Ergograph.

(5) The Blotoicture experiment of Robrichack was applied to every boy.

(s) The Boardon concentration test was applied to every boy."

(d) A spentaneous drawing. Every boy was given a short of paper and sald to draw whatever he wished, or whitever he was interested in. This method seems to be really valuable, because it entalls so much spontageity; it is very simpleand one has to consider this point very strongly when dealing with neglected juveniles; it indicates not only the direction of interest, but also the intro- or extraversion to a certain extent-joylal extraverted hoys rarely find time to tractice drawing, and if they do, the objects drawn are of a different class.

(a) Indervious.

This we consider a very important part of our investigations. As previously pointed out, we endeavoured to

¹ Skawna, Tyfologis der Esperantea. * As seed by Faul, Milantelogical inflantous on Concentration, Protects, 1931.

establish friendly relations with the boys all along. At the close of our stay, I personally interviewed each boy privately. He was full in a friendly way that everything he said was voluntary and would in no way influence his position. I flattered them by tailing them that they knew themselves better than any other person, and cased them by saying that after they had been detained for such period they could retrooped calmly and tell me "bow it all happened", "how it all started," "what was his weak point or his had side." I knew as such as I could glean from the records, so that by tactful questioning I could direct their attention wore definitely on what I considered the weak links in the class of information II took care that the boys did not know of my perusal of their records.

By comparing their takes with the actual crims absets, I could convince mayalf that only in a per cent were them attempts to surfocely dissimulate. In this way I obtained more particulars of the actual circumstances, and I had a view of the boys' attitude and behaviour towards parents, achool, books, work, girls, bioscopes, dances, drink, sodety life, law and order, prison, etc., etc. The sequel must peak for itself. I continually kept a close sye on the expressions when the different phases were portrayed. I must admit that there were very few boys whom in some way or other I did not begin to like afterwards.

(f) Photographs and Authropological Investigation.

Every boy was measured and described antiropometrically activating to the scheme in the Psycho-Biogram of Kretechnier. The different hops were then classified under the types as far as this was possible. From these, the averages were worked out. Every individual was then

³ Kretschuser, Mellicinische Psychologie, Lulpolg, 1990, p. 227.
³ Er aufther gent gelber erfüllerundern of owe işstirişteli, Data dolan similar mesenvastets am demzişdizon on mestry 200 Taradechool įveznitos and University stolecuts persons to the pratent investigation, and therefore commands the anomaly angulance to be able to classify boys periminarily farm their general samphilipidan? characteristika before the nebth differenties in summersument on comditional.

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compared with the averages of his type and the pronounced exceptions reconsidered with the view to acclassiying them if necessary, or placing them aside with the indeterminable. We shall discuss the difficulties encountered in these respects when we describe the types. We need only mention here that the measurements, descriptions and photographs were studied for months with sometimes very interesting results. It is nearly impossible to get these types in a pure form, and certain exceptions in an otherwise relatively pure case frequently only become apparent effet much handing.

Two views were taken of every boy with a plate camera at a distance of ten feet. These views were the direct front and the direct side (profile) view. The delingemt boys were not taken absolvtely mude (vide photos in texts) because it was found that this would cause resortment on their part, leading to resistance of our invastigation, frustration of the established friendly relations—on ecossary for the interviews—and would also be inadvisable from a reformatory point of view. The photographs are deemed a very essential feature of our investigation. Many morphological peculiarities such as assymatries, feminisms, etc., were only detected upon careful scrutiny of such photographs.

In the anthropometrical descriptions we also paid attention to the bodily (functional) stigmata connected with the types of Jaenach, such as shine III eyes, velvety skin, tetanoid steps foor with folds on forehead. It is our intention to show some of the relations existing not only on the mental side, but also on the hophysical side between the types of Kiretschuser and Jaenach.

7. The Scientific Value of Interpretise Observations

We have approached our staterial from a "temperament" and "clausacher" point of view. On this account we had to make ample use of, and attached supreme importance to, interspetative or intuitive descriptive observations in all possible situations. Our observations have been aided fundamentally by psychotechnical experiments in so far as such exteriments brought the subjects in rarious situations which made observation ressible. But we have not made much use of direct concrimental results. This is not because we are in principle against experiments. On the contrary, we are very much in favour of neveboingical experiments as far as this is possible. In fact, in our institute the typological studies have been fully supplemented by instrumental controls. Also the typological differentiations of the school of E. R. and W. Turnsch have largely been based on laboratory experiments. We have ourselves made some experiments on these dalinquent boys, as we have previously shown. But all experiments or tests must be supplemented by extensive observations describing the general attitudes (Einstellunger) and emotional responses towards the experimental situations. W. Jacosch has enticised the typology Kratschmar, later alia, because it approaches Its material in an intuitive, descriptive way starting from the bighast mental function-levers, such as emotionality, excitability, and attitudes." W. Jaensch believes that in the laverstructure of the mind, the so-called "eidetic images" belong to a lower mental layer, i.e. are less directly (Intimately) bound up with the self-conscious ogo than the functions investigated by Kretschmer. We shall later on discuss more fully the concepts of eco-consciousness. mental layers and the relations between the types of Jacasch and the types of Kretschmer. Here we need only point out that the students of E. R. Jaenach also made extensive use of so-called "intuitive, descriptive (interpretative) observations", to explain the typical personality structures. H.e. Möckelmann observes that the more athletically built tetanoid type is less sociable. prefers solitude, does not easily establish emotional rapport

¹ Ментла, Тургічут of Еграрових, Pentonin, 1900. Also F. Fall, Melocrologicol Inflament on the Communication of Righ School Californe, Pretorica, 1930. С. Pregnamoud, Psychologicol Albelian of the Types of Kentralson, Pretixon, 1987.
¹ W. Januardt, ep. г.К., Geombaye, Berlin, 1986, p. 200.

CONSTITUTION-TYPES IN DELINOURNCY

with those he meets, is not frauk and confiding, but cool. formal, and official. In fact, the real temperamental next of Möckelmann's exposition depends almost entirely on observations made on the sourts-field, in conversations, at college, etc.3 Similarly, Ower, whose experiments on tachistoscopic reading in the Jaensch types have added substantially to the knowledge of the types, supplements his experimental findings with splendid observations of an "intuitive descriptive" mature. E.g. the naive questions asked by the B-type during the experiment; their naive salf-feeling and enthreisem expressed interfectionally when certain results are obtained in the experiment: the regularity of attendance and feeling of duty of the T-type. Ower describes the different pleasurestates in the two types with intuitive subtlety. He uses his observations to refute antagonistic views (e.g. "This idea is incompatible with the very paive, given-up-tothe object impression which the integrated type creates during the experiments "7. Owner also intentionally quotes Lucke, another laenach student, to prove the value of natural environment and conditions as found Psychiatry, Child and Animal Psychology, and the value of the interview-method and observation of the Whole behaviour of subjects: " Nowhere else is the subject given in his entirety. Here, however, the experimenter not only hears words, the meaning of which he still has to interpret correctly, but here he sees from the mimirry, the eyes, the attitude, the carriage; here he hears from the intenation and rivetime of the woice whether, and in What relation the discovered part-commonents are intrinsinally bound up with the whole personality." *

Oper, ed. off., D. SHL.

³ M. McCerlmann, Perophichialogyjan des Symilors and Turners, Nathurg, 1979, pp. 42, 43, 46, 51, 52, and 54.
⁵ Cheer, "Inhabitalogische Lavoreauche" in Zeolodoff für Psychologis, 3d, 112, 1979, p. 360, 1882.
⁶ Coarr, 6p, 61, p. 188.
⁶ Coarr, 6p, 6p, p. 188.
⁷ Coarr, 6p, 6p, p. 188.
⁷ Coarr, 6p, 6p, p. 188.
⁸ C. isho, Shavrins, F. Furche and Angel in Pethop Mindealler," Archiv. f. 2. Gest. Psychol., 3dd. 7p) who quadranted auxurd cynditions with intentional expedianced introducence and given bis conclusions in an "initiative deprophicule" form.

If the typical differences in the stone printitive levels. such as the twoical differences between the eidstic images of the B-type, and the eidetic images of the T-type, really depend on differences of the "primitive" levels thereselves, and are not due to differences of "bisher" levels. such as emotions, acts of attention, attitudes, then the Taenach school has now definitely extended the reach of these typical differences from those "lower" lavers to the "higher" layers of the mind; and for the study of the higher levels, the Jaconsch actual now makes use of "intuitive descriptive observations", as we have just illustrated.1 But it is still possible that the typical differences experimentally shown in the levels of the sidetic phenomena are doe to influences from the top. The, in many respects, outstanding experiments of Osser, at the institute of E. R. Jaensch, on tackistoscopic reading were essentially interpretation (Deutemes-) experiments. and as such deal largely (as he has shown) with attitudes (Einstellungen) bound up with the "highest" layers of the Ego pyramid . So that lecrath possibly did not actually exclusively handle the so-called "lower levels" of the mind when he first discovered typical differences in the elderic images. Stawing a has shown from pathological material that in all perception we have a fusion of trainer with sensations, i.e. elements from both the "higher" and "lower" levels of the mind. Skawran.4 moreover, has illustrated that in the child mind attitude already plays a vast rule. In practical conditions it is, therefore, hardly possible to inclute the "higher" from

I'W Jamuch also saimfer this (ap. cit., p. 207, fortrovis): For investigation of the higher mental pascency E. R. jaccach has always reduced by the control of the pascency and the control of the contro

A Storring, Psychologie, Lebroig, 1923, p. 161. " Furtht und Agent im Frillen Hindamber."

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the "lower" if these vague distinctions way be at all permissible. Moreover, there is no evidence to prove that when the intrinsic nature of the "higher" processes is to be studied, the salest method is to trace their influences on the "lower" layers first, i.e. to start from the lower levels and work up to the higher ones. Also, as we shall show in a later chapter, it is much more possible for the bin-physiological correlates of typical differences on the emotional, impulse, and volitional side of the personality to be discovered first, because it is an acknowledged biological fact that the functions genetically earlier sonnired have a smaller variability than those later acquired. The functions which Kretschmer investigated are also just as much, if not more, correlated with endogrinevegetative-sometic conditions as the after-inners and eldetic images from which Jacosch started. W. Jacosch 1 admits that Kraus's views may be true, vis. that the type is manifested more distinctly and sharply in higher montal functions such as the nature of imagery processes. In fact, at present the students of Marbune and W. Jaensch. himself describe and expound their typological findings laxedy in observational interpretative terms.

As supporters of the school of Störring, who has indicated that there is no need for an additional "Understanding Psychology " apart from the present "natural-science" psychology, we do not intend to advocate purely intuitive expositions based on slight purificatory evidence. But, emperially in the origination of theories as proposed to their verification, "intuitive understanding" in the typology of temperament seems to be definitely necessary. Such "understanding" must then be based on introspection studies in the investigators, if possible under experimental conditions. Though the psychiatrist may not have been trained in this manner, he has the safeguard of wide clinical experience, and his own inevitable introspective self-analyses. In our case we definitely

· Grandelen, v. 300.

Störring, Kills Kengress f. Kept. Payeb, Bonn, 1927: also Guistponianental lighus and Faratabandan Payebalagia, Leipnig, 1998.

based our "interpretations" on ameral psychological theory. For instance, the analysis of emotions into feeling tones, organ sensations, excitement and tension. the theory of volitional attitudes which produce the active type of perseveration, and the theory of passive perseveration due to feeling states all these theories, so lucidly exposed and adequately proved on pathological and intropective evidence by the school of Storring-have been of immense help to us in "understanding" and "interpreting " the types. It is in this respect that our studies on termerament and character differ fundamentally from those based on "enquête" (questionnaire) material as in some of the studies by the school of Heymans and Wiersma. Ordinary physicians without training in psychology cannot be expected to interpret, intuitively describe. subjects so adequately psychologically, that their descriptions can be used for a characterological theory. It is striking to note the contradictions (as we shall indicate in subsequent chapters) between observations by trained members of the school of Groningen and enaterial collected by the " enquête " method. There may have been much of "intuitive, interpretative" conceiving of the types by Kratschmer in the beginning, but subsequent pathological and experimental psychological researches seem to admirably corroborate his theories "The way in which relations, theories (" Ergebnisse ") are originally found, does not decide the value of a ecience, but the way in which these theories are verified," said Solz,1 when he tried to show that the netronality-type study does not differ essentially in its methods from the intuitive building of hypotheses in Mathematics.

At any rate, for the study of temperamental and characterological typical differences, the exclusive use of direct experiments at the present stage of experimental psychology seems to be neither the only reliable nor the most instructive method of gleaning information. Ill is altogether strange that a psychiatrist like W. Jaensch

² O. Sals, "Perstudichheitstypen und die Methodenihuer Bestimmung," VIII Kongrue f. first. Psyche, Leipzig, 1923, p. 4.

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should take exception to me "intuitive descriptive study of types " where this is the common method in psychiatry.1 We fully agree that conclusions should be based on actual facts observed and that as Stern indicates in child psychology, all the facts should be mentioned apart from the conclusions. But we cannot possibly come to the real intrinsic relations of the facts in the sense of temperaments and character. If some measure of "intuition". empathy (Einfühlum), is not used. Our observations. though largely of a descriptive nature, and dealing with emotional, impulse and volitional reactions, have been based on actual concrete facts, observations sometimes. only made possible by placing the individual before a psycho-technical task. Fundamentally, therefore, there does not seem to be any difference between the presentday methods of E, R Juensch and ours; also from a methodological point of view our methods do not seem impeachable.

8. Psycho-pathological Method

There is another aspect of our observations and material that needs special recognition. Many of the boys are borderline cases with regard to the emotional, impulse and volitional (temperament and character) side of their personalities. The fact that they have been convicted repeatedly is proof that from a social point ## when they are abnormal. Such abnormal material forms what Storing calls "Experiments der Katur "4 and he, together with others, as Höbfölmer, Zichen, Ballitzer," was our of

⁵ Cd. the classical works of Elander and Brantin. A brilling transple of injustive description psychological transport of the higher processes is to be found in Caol Schneider's Psychologic der Schlappierson. ⁸ Psychologie, p. 21.

¹ Talleitare, Emericon and Faunciety, Leanders, 1806. In the prefaces of this interesting note, Professor Belleting amplitudes the values of faceriptive psychology, especially it sides by appropriately. In Augit-American psychology, the method has also beam and with magnal success. Rivers, Favines and the Unexpositive 3: J. T. Mint Oursely, The Psychology of Emellow: Although of Marine and Psychology, We made not successful the psycho-ambytical admit, so well known use their custa in this direction.

the strongest advocates of what he terms the psychopathological method. Some of the individual mental processes, as Stitring indicates, are abnormally accentrated and in that way relatively isolated (abgehoben) from the other processes, in pathological cases. The functional relations can accordingly be much mone easily "read off". For the psychology of temperaments, our delinquest raterial should accordingly be more valuable than normal material.

CHAPTER III

TYPES OF PHYSIQUE 1

The Leptonous 1

(a) Magamemanti.

Simil 1:-Cinnte, :--Circust. 55'1. Chest, 84%. Diam. Sagistal, 19'3. Stomach, 70'2. Frontal, 142. Hinn, 16-2. Vertical, 23%. Langth:--Foot:-Logs: (Trochester), gra. (Lio-epinale), 101'A. Height, 18'5. Forearm, 16-1. Height of Mid-Pace, Str. Hand, 19-6. Chin. 4'7. ... Porchand, vil. Breadth :-Length of Mose, 37. Shoulders, 36 o. Breadth at Malars 13'5. Hips, 32'0. Breadth of Lower law 3373. Chest, 17'9. Indian :-Haight 174. Weight, 60%. Stuff, 18:25. Circum: :-Pignet's, 30'1. Foreszu, 95'2. Chest : Shoulder, 43'P. Calf, 38'5. Chest minus hips, 4'9

American, 95°.

Class at Smoother, 95°.

Eas to our, 95°.

I as this experience of seale mainly with the constraint, 70°.

I as this experience of seale mainly with the constraint, 70°.

I as this experience of the constant of the constan

attractively written both for details and under of measurement which, for reasons of space and the more specialised nature of our thuse, we

could not give in full.

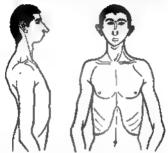
In the English edition (1989) this name line not yet appeared, and
"Authority" in still need. But in his lates German ciddrag Kerterbulust
con "asthmatic" only for the mose entreen, weak, forms (Kimmertora)
of the desderly built type. Dr. Th. was Velden (Le Endryleis) ast for
editions of the desderly built type. Dr. Th. was Velden (Le Endryleis) as for
edition of the desderly built type. Dr. Th. was Velden (Le Endryleis) as the
edition of the desderly built type. Dr. Th. was Velden (Le Endryleis) as the
edition of the desderly built type. Dr. Th. was Velden (Le Endryleis)
of the desderly the developed physiops are compared with the "in about it "shows
he had been the property of the description of the

* According to Kreinchmerch Brychy-hingman, Medicelatede Psychoiogés, Leipidg, 1809, pp. 357, a five of the atoms unconstant term at the be explained thus; Shall since Elle, N MV3 + Longth; Pignat's index, i.e. index of bodylulium = hampte — (Crost circum. + WL). We may further remark that more wertful might of shall in not exactly that of Kreinchmer, as it was taken bean the amplitude to the other of the least. Our height of flow = magnitude is pitching.





From these measurements and indices and the photographs of Fig. 7, 8, the following characteristics of face, skull, and body-build of the leptonome, especially as compared with the two other types, are important.



Fits. 8.- (From Mreinchiner: Militarias and Charakter, 1938.)

(b) The Face,

being according to Krutachmer, "the visiting card of the individual's whole constitution," is for diagnostic purposes very significant. The leptocose face is briefly as follows: "Skin and soft parts thin, pale, poor in fat"; skin usually stretched on bridge of none. Both formation of face is delicate. Very typical is the disproportion between the fairly long some (compare measurements with those of pylenic type), and the hypoplasia of the chin and lower jaw. This is generally clearly obvious in the profile view. Ill retails; in the so-called angular profile (vide Fig. 9c. 4), where the forecheed is somewhat sloping and the chin recoding. The lines deawn from the

² Quotations from Koulechmar, unless otherwise stated.

point of the chin to the tip of the nose, and from the tip of the nose to the invehead, produce a clear obtuse angle. The nose is usually this, surrow, sharp, fairly lone, if compared with the length of the face and chin, with the tip "rather palled downwards ".1 Seen from the front such a face in more cases has a shortened ser-shape (vide Fig. oc). This is produced by the relatively broad

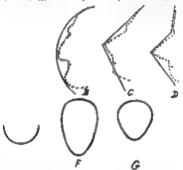


Fig. S.-et A. E. F. G from Montachandr : Physique and Glassofer, 1928.)

forehead, hypoplastic lower jaws and lack of "fatty upbolstering of the cheeks at the side". In some cases. musly due to some athletic admixture, we find long faces appearing lower than they really are, because of

⁴ The may to the pure leptoness; is not up much pronounced betause of its real also, but, because of the receding chie and foreboad, and also because of the medium length of mid-free on which it is built. Athletic presence on the profession tempts or more on words or it than. Athletes markets essent to give some legislamines a very top and large none; because if one excutables the mane "authorite" type (seven in Kronchmer's pricture), the man is quith medican. The augusts profits eventual characteristic of course.

their narrowness. The length ill then mainly due to a longer midface (root of none-mouth slift).

(c) The Shott.

Ouring to the relative immodifiability, the skull in Kretschmer's descriptions has last its central symptomatical value which it enjoyed in the days of Gall's phrenology. From a general point of view the skull of the lentosume may be described thus: it is small. low and of medium breadth. Kretachmer mentions that the hand is usually short and the shape of the back II the head stoop, showing only shight roundness. In our material, however, the steepness of the back of the skall was more obvious in athletics than in lectosomes 1 (cf. Figs. 7 and It). Also, in our measurements we did not find the sagitts diameter to be much out of proportion as compared with the other types. Skull index of lept. = 78.75. as commuted with athis - 78 2 and price - 70 0. There are also other headforms, found in leptonomes, especially when these are allebily adjusted with the various dysplastic forms

(d) General Bodvonidi.

"A deficiency in thickness combined with an average unlessance length." "This deficiency apparent in all parts—face, neck, trask, extremities and in all tissues —skin, fat, muscle, bose, and vascular system." Compara—skin, fat, muscle, bose, and vascular system." Compara—skin, fat, muscle, bose, and vascular system. "A bean, narrowly-built man who looks baller than be really is." Narrow shoulders and chest if compared with measurements of hips flow index!. This measurements of hips flow index! This measure, delicately bound, long arms. The chest is flat with sharp rib angle; the belly this, though sometimes a loose small portbelly

³ Kretschmer's photographs in his main works, Physique and Character, Medicinicols Psychologie, and Couled Messchut (handlated ander the title, The Psychology of this of Govins, Louisia, 1898), do not seem, to bear out his contamions on this point.

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found. The leptostone, though of average beight, is usually shorter than the athletic type 1 and in certain cases. especially armong women, may remain relatively small. Though not mentioned by Kretschmer, I have found a tendency in the leptesome, especially in the more asthenic variety to a stoop (wide photograph), while athletic admixture gives the straight worteheal column of the athletic type. There is another feature not mentioned by Kretschmer specifically, and that is the proportion of the length of the less to the length of the rump without the neck and head. The pyknic type is described as thickset and compact (redranges), but the small height of the pyknic, according to my observations, is in the first place due to their short tibis-fibula bones, nock and head. We have not measured these bottes separately." but the length of the forearm (ulna-radius bones), correspending to the calf-bones mentioned, according to our measurements is relatively less in pyknics than in the leptosomes and athletics (26-2, 28-1, 28-0).4 It is notable here that these bones in the leocosome are even slightly longer than those of the athletics. From our measurements of the lars it is also apparent that the lexiconomes lars are more or less equal to those of the athletics, and a good deal longer than those of the pyknics. The pyknic type accordingly has a relatively long rump and short extremities, if compared with the other types. This fast

5 Cf. also, Simuran, Monach of Montal and Physical Tane, Prettyle.

p. 200), a very current structure of communication types.
** I have, however, during the last two yours, specially observed these proportions. Particularly in womans (where finishin has hitherto skided the artitropologist by enjousing the legs), atthirds or leptunousin admirture meatifests very obviously to the long table-fibral (call-boxe).

This tendency has also been noticed by Dr. Th. v. d. Valda (sp. sil., p. 256), a very careful student of commitation typus.

manifest very obviously in the long thiss-finals (sail-bosts).

"We are now invertigating the relations of length of lower extraosities (opporting) with a single profession of length of lower extraosities (opporting) within-finals balls by that at the result (symphysid-edge-obstraosi), it is important that the noth and hand be overload from the ramp, "strong high noch" and single and hand to exclude the relation of "virtual high noch" and single house "virtual high noch" and single house "virtual high noch" (C.I. and Krizghatter, Physique and Chemetor, p. 102. Fastinistics Psych., p. 151; and Krygatterg, op. 4th., p. 325.).

"This is also shown in the measurements of Kizgatterg (op. Cl., p. 21) who gives the securing for the types: logic 102.; addle 137.





has already been emphasized in a different form by the Italian school (Pende, Viola, etc.).1 The latter especially compassives the importance of the comp-extremities proportion in his blotypes. Similarly, we find reference to it in the works of Professor Breitmann, I Ries. These proportions seem to have very interesting biological implications, as we shall indicate in 2 later chapter. In measurements on a large material of epileptics by Krevenberg, and also by Hoffmann and Delbrück, it was found that epilenes tendencies to nearly too per cent



Fig. 15.—(Prom Mysterhese's Norbelies and Charakter, 1958.

of the cases so with unusual length of less in comparison. with ramp-length." This claims more importance if we realize that epilepry in modern psychiatry is coming to be looked upon more and more as a bio-constitutional abnormality.4

⁵ Peads, Konstitution and Junes Salvation, Leigning, 1984. We shall 10-ordinate our types with their innte fully in a later chapter.
 M. Breitmane, Arabina de Crimonalque et de Medicion Légale. vol. 1, 1927, p. 1250

Krayanberg, Kirparban, Epilapsis and Chamilton, p. 824.
 Delbrick, "Epilapsis and Epilapsis," Audio, f. Psych. and Nervanium M. 1888.
 p. 788.

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Mumford ! who has come in a similar sometic tenclory. as that of Kretschmer apparently without any knowledge of the latter's work, describes the improsome type as the "test tube" build. This is in accordance with our measurements which indicate narrow shoulders, chest, waist, and hips. The breadth of the hips in some cases il somewhat pronounced in proportion to the shoulders if compared with none male-cases in the other two types Mumford compares this type with the "wineglass" type which corresponds to certain members of Kretechmer's athletic type, via, the broad shoulders (con of wineclass) with relatively narrow hips (base of wineglass). Thirdly, Mumford has his "barrel" type, the compact pyknic physique of Kretschmer. (Muniord's energy descriptions also tally to some extent with what we shall outline later on."

(f) Physical Power.

The weak mescularity and strength of the leptosome niso become evident from measurements taken by us on a few hundred juveniles with a dynamometer. Grip pressure : lepte. - 116; athletics - 270; pyknics -31-4. Pulling with arms across chest; lents. = 20-3; athletics = 26-04; pylmics = 22-3 fell in kilograms). These measurements may, in many instances, help to indicate athletic admixture in an otherwise relatively pure leutosome. The physical energy we shall tough upon in a later chapter.

(g) Shin and Hairage.

The skin is thin, poor in fat, and of a medium to fine texture; not very elastic, weakly circulated.

³ A. Mambrel, Healthy Greath, Oxford, 1927, p. 179.

^{...} measure, measure tremula, include, 1922, p. 179.
As Dr. Thiew (System de Typeroldes, Ledged, 1970) reserve,
the similarity of types reached by watches southers in various parts of
the similarity of types reached by watches southers in various parts of
the validity of three demandaging typendight countries.

Per further particularies, Shewman, Marward of Mentel and Physical Tests, Protons, 1850.

The plan of Schings is similar to that of Jacouch's T-type—cas of the proofs that there is a clear relationship between the two typologies.

The hairage is very characteristic and isoportant. We have to differentiate between primary hairs and accordary hair. The primary hair of the child consists of the hair of its head, brows, and the almost invisible lawnge hairy covering of the rest of the body. At puberty is added the secondary hair: genitul and armpit hair, beard, hair on the trunk, also gradual change of the lange hair of the extremities into secondary hair. Only the pubes and the hair under the armpits develop ordinarily before the age of 37. Accordingly, in our juvenile material, beards and hair on the chest were generally weakly developed in all types. This proved a severe handings in diagnosing the types. The same applied to fat accommendation as we shall indicate later on.

The legitosome often has an excessive formation of head hair, not only very dense but " grows far down the neck and also inwards over the forehead and temples " : " brown often partake in this excessive growth ". The individual hairs are usually thin but have a tendency to stand spect. Such profuse, thin, straight head hair may be called "Fur cap" hair in Kreischmer's terms (wide Fig. 7, 91). This kind of thin, erect standing " fur " hair is a very important characteristic, which Kretschmer has not emphasized sufficiently. Leptosomes can be differentiated from athletics in this respect. The athletic's being though also straight (not erect), is much coarses in fibre, and generally in proportion to the athletic's more robust build. There is much less tendency in leptonomes and athletics to become hald than in pyknies, and if they do, the hald match it usually irregular and with a matt surface, as compared with the shiring bald heads of pyknics. The lange hair over the body often is also well-grown. The secondary hair of the leptosome, contrary to the primary hair just described, is much less developed. Weak beard, mostly localised in frost of ears, on chin and apperlip (Chinese beard). Assemble and genital hair medium (if no dysplastic inductors infantilisms and conncholdism). Scarty hair on chest

10. The Athletic Twis 1

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(a) Measurements.
Shall :-
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Circum., 16-2. Diam., Sagittal, 197. Frentel, 144.

Vertical, 24'4. Face :--Height, 78'7.

Height of Mid-lace. Bra. Cabo, 4'9-Forehead, 6'1. Langth of Nose, 484. Br. at Malar Pones, 13'9.

Br. of Lover Jaw, 3+ 6. Weight, 20-a. Meight, 1960.

Cirones:-FOTOBLITE 1270. Calf, 33 o. Eur to car, 35'2. Circum. :-Chest or o Sternach, 76-n. Hier, or T.

Logs:-Lags: (Trochester), 90'h.

(Thio-epigale), 100'I. Forearm, all o. Hend, 1976. Brendit :--

Shoulders, 18-1. Hims, 17'0. Chest, 25 6.

Imbios:-Stoull, 28 v. Present's, E4'd. Chert, Shoulders, 43'1. Cheet, Hilps, of th. 2 X Lett - Heinks, 4%

(b) Similarities with Leptonopues :-

In describing the main features of the lentescous we have made several comparisons with the other types. Also in Kretschmer's descriptions, the leptosome and the athletic, both belonging to the Schizothyme-Schizoid-Schizonhrene series, are shown to have also many sometic constitutional fustures in common, e.g. weak fet accuratistion; tallness; length of legs; long faces; angular profiles; profuse primary hair; distriction to regular, thiny, bald heads: hair straight as compared with the soft wavy hair frequently found in the pyknic; pule colour of skin, etc. We may, therefore, describe the athletic type mure cursorily, and indicate his special characteristics only.

(c) Face and Shall.

On a powerful bigh neck is seated a course "highhead ", with a high middlefoce and fine powerful trophism of the boxes and skin; well-defined sunra-orbital arches;

Only to retain politorality we would account this pages because "athleticism" in the English same sugges to be an aptitude of the stillatic laptoman suther than the extreme suscelar type. "a projecting, well-monthed chin"; a sumb case, oftenvery large. In the classical case the profile-line (i.e. line joining tip of rose to furchead and tip of chin respectively) shows a gentle curve unitely due to the high mass being cunteracted by the projecting chin; but many instances of angular profiles and large-mosed profiles are also found. The frontal view gives an elongated egg-shape [Fig. 9], due to the "largeth-wise hyperplasia of the mid-face and chin". According to our measurements the head is of medium size, usually wiseon at the back.

(d) Bodybwild.

Usually tall (compure height measurements); particularly breed, projecting shoulders, as superic that and a trunk characterised by a strong development of the ateleton, musculature and skin. The heavily bulk shoulders in comparison with a proportionate pelvis and hips gives the "wineglass" impression of Mumford. But our measurements show that the heavy hone trophlem usually leads — havy hip-bones as well (cf. also the measurements of Krettchmer and Kreyenberg). The extremities also show heavy bones and joints will proportioned by the plantic wascle relief. The free neck with the "aloging linear contour of the first trapedus" gives this part of the shoulders, if viewed from the front, its very characteristic form.

(e) Shin and Hairage.

The skin of the sthletic we found to be thick, firm and with a characteristic conset texture. This texture contrasts very typically with the fine texture of the soft, velvety skin of the pykwic.\(^3\) The head hair of the athletic is ansulty straight [not except and hard. The beard is more developed than that of the leptosome but less than the dense and well-distributed beard of the pykwic.\(^3\)Cypylaxis, however, are very common in my material.\(^3\)

¹ This is one of the knotaness where these is remarkable somatic correspondence between the Schinothyses and the T-type of Jacoch; and the Cyclothyses and the B-type to the other hand (W. Jaanch, Grandrige, p. 167).

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After the asth year of are the chest is, in a triangular form in the centre, inclined to be well covered with secondary hair.

11. The Schooltyme-Schimid-Schimblerese Group

It is to the great murit of Kreinchmer that he has both statistically and temperamental-characterologically indicated the relations between the lepteromic, athletic and dymlastic constitution and the Schize-personality. Without committing ourselves to his theory that Schizophrenia is a mere caricature of the normal Schizopersonality.1 we may still profit enormously by accepting Kretschmer's classical analyses of the pre- and postprevchotic Schizo-personality. We need only remamber always that perticularly in the postpsychotic personality Kretschmer may have strock upon characteristics which actually belong to the disease as a "process" superimposed upon the real prepsychotic personality and do not actually constitute an insurance development of that personality. As we have already indicated, there are on the somatic side many general trophic principles which govern the features of both the leptocomic and athletic constitution, the most obvious being: strong primary hair with weak secondary hair; absence of fat, roundness and compactness; long extremities; well-developed noses often producing the characteristic angular profile;

Leipzig, 1800; Januach, Grombidge ... Berku, 1908. Also Professors Lange, Grighly, and Wilmanous allam squet the nact opart of this showy. Is a gate or this, his startywer are entrementely quoted. The whole problem of the professor of the profe

⁵ The extraction pieces by Newbackmer between the Soliso-portubality and the actual Scherophrenic dismans process in twing severely criticised by very famous paychastoria, e.g. Boulde, Labrouch der Geitalmankleine, Marchan, 1979; Carl Schoolden, Paycholgis der Schicophens, Leipza, 1809; Jenauch, Corwallaju ... Berlin, 1998. Alle Proleaser.



FIG. 64.



deep-sat eyes without much instruc. But it is obvious that somatically these are very distinct differences, too, between leptosowes and stabletes, such as conveness of head hair, muscularity, bones and joints, etc. We shall endeavour to show in the segment that these difference seem to correspond to different endocrine and other biological radicals, and also to appreciable differences on the psychical side. The dysphortics as a group and the various subgroups sumy be separately studied



Fig. 13.—(From Mestachines: Mileparton and Charakter, 1988.)

⁴ Krutachmer mentions only cusmolly, when disressing the pytholic contraction, into they contralled method have recognitudes, but flower of that Blatil deep-net eyes. We have, however, in seromal makerial countractly local the eyes of pytholic to be fairly heap, bright, youthlaid, and replicate to be fairly heap, bright, youthlaid, and replicate the same private admittants is sheest, were found to be deep-net and without the right youthly hapter of that of the pytholic (cf. Figs. 7, 40). The same increment is created when the pholographs in Kratichaner's broads an carefully reduced, We shall seem to find whan discussing the rightims of one typology with that seems of this whan discussing the rightims of one typology with that seems of the indisplyment of the property of the seems of the indisplyment of the property of the seems of the indisplyment of the property of the seems of the property of the seems of the property of the seems of the indisplyment of the property of the seems of the property of the seems of the property of the property of the property of the seems of the property of the prop

Potentiary generals specific along an analysis of tracts to trethine more differentiated correlations hadrons the psychical outrypes and the municion hattypes (cf. Sinks, Schiedleiff J. day 7-1, 20.8, 9), 257-271, and Kratchiney. Belongische Pumilimbledviz-disgraces in der Stratchingthy. The production of the Stratchiney. The production of the Stratchine work, the relation of the stratchine work that in the season of the Stratchine between the Schiegenscality as a whose, and the physique types to which it is lays a ladige and the physique types to which it is lays a ladige and the physique types to which it is lays a ladige and the physique types to which it is lays a ladige and the physique types to which it is lays a ladige and discharge and the physical galaxies.

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from the psychological and psychopathological side as well, in order to find more differentiated correlations between biophysical constitutions and psychological types.¹

12. The Pylonic Type

(a) Measurements.

Sind ...
Circum. 45 3
Diant. Sagital 1974.
Frontal 75 5.
Vertical 23 8.

Height, 18-5. Height of Mid-thes. 8-s. Chip. 4-7. Porehead. 6-3.

Hr. at Malar Dones, 140. Br. of Lower Jaw, 110.

Height, 1570. Weight, 62-3. Circum::—

Forestin, 25'S. Calf, 54'o. Ear to ear, 35's. Circum.:--Chest, \$75-Stoarach, 70'4. Him, 68 v.

Hips, 88 to.
Length :-Lugs : (Teoch.), 86's.

(Dio-Sp.), 90'0. Forenze, 26'4 Hand, 19'1.

Bezadib :--Shoulders, 36's. Hips, 31'3. Chest, 28's.

Chest. 28'5.
Endies .—
Skull. 79'9.
Pignet'st. 17'0.
Chest. Steelders, 42'2.
Chest. High, ~5.
3 x Lage — Height, 6'0.

(b) Classification difficulties of young Pylmics.

In the juvenile material we had to deal with it was found extremely difficult to cleanily the pythnics adequately for the following seasons:—

(1) At this age, betweeneous elements in the constitution

come out very clearly.*

[1] The typical pyknic int of the trunk usually only begins to show clearly after the zgth or yoth year of age.

to show clearly after the zyth or yoth year of age.

(3) The secondary hair, such an important diagnostic symptom field, is also very far from its full growth between the ages of 166 and 275 years.

¹ This forther differentiation is, to some entent, she attempted by Kryenberg, and she Mrayus (Hérissimpen, p. 28) engine that 'spread types 'the built qut of the dysplantin. In all such constitutions between morphological physicsopicals and psychological qualities we explantationly do not steam single features in the result of Lawsier and Gall, but trood constitutional complex-mains on the physical wide wide with features in the contribution of why with features that characteristics as e.g. the moud and cathierent proportions, on the nexts idea.

Physique and Character, 1998, pp. 42, 33.

We shall therefore describe the typical pyknic constitution more on the adult model (wide Fig. 13) and according to the works of Kretschmer.²

We then get the following picture :-

(c) Face and Shall.

The face has a tendency to "husuith, softness, and rotundity". The shall is large, round, broad, fairly deep (sagitally), but not very high (cf. measurements). The skin has a tendency to redness on the cheeks and nose. but otherwise, has a vellowish colour. The face is the real "full-moon" type, being round with a good overlay of fat and without projecting bony structure (sade Fig. 12). But the plastic features and folds (e.g. the poss-lips crease) are well-formed in spite of the absence of differentiating bonce. The profile line is only gently curved because of the progruding domed forehead and projecting chin. The none, moreover, is small to middlesize, a fleshy and even thick tip, blent, often with wide nostrile and sometimes with a depressed bridge. The forehead is broad, domed, and much more prominent. than in the other twoes: were remarkable is the similarity between the forehead of the male pyknic, the normal female and the lefant in this respect." At the bank the

We doed it necessary, of a complete tenestedge of these types in required, especially with regard so pacality forms and subject types, to contain Retachment's works.

⁸ Kestlerhmer's depiction of the pylonio—as compared with the other type—bodily as well as assessing—in early symmethetic and factoring indeed; as much as, that ar our institution the linguisation are created that Kristechaner must belong to this type himself. Ut also Dr. Plahler on this could be a second of this could.

This is not mentioned by Krefachmer, but our observations have everlood as that flower are many very interceting similarities between the syntac braid and their of any induct. After, there are anany strailarities between the policy incherges of the "aroundly well differentiated," normal woman and the infant. This fact how also been capitalessed by anthonogicalities generally, and Gendere (Flowesheeds, Machen, 12%, p. 36, 118, 169) who indicates the standard problems the Alpinic racial of the policy of the standard of the policy contribution, whether is his description of the standard of the policy of the standard when the policy of the standard of standar

CONSTITUTION-TYPES IN DELENOUENCY

head, though counted, shows but little protrusion, and it connects up directly with the short thick neck. 1 Viewed from the front the face gives the "flat few-cornered." or the "broad shield " shape (vide Fig. q a. c).

(d) Body-build.

"Pronounced development to the outside of the breast and stomach; tendency to fat accumulation more on the trunk, neck and lower face than on the limbs. Height medium to small, soft broad face on a short messive nack sitting between the shoulders." Paunch protruding, and chest vaulted. Muscles not showing the relief of that of the athletic type, and usually softer. Skeleton and foints medium to delicate. Hands rather short and wide. Shoulders in the pure case are less broad than those of the athletics, but broader than those of the leptosome. Kretschmer mentions that, especially among older pylmics. the upper portion of the spinal column takes on a light kyphotic bend making the shoulders drop forwards and downwards over the swelling chest. The extremities are short, especially II compared with the length of the rump (excluding neck and head).

(a) Shin and Hairace.

We have mentioned that the pulsale unually has a good complexion over cheeks and nose. The slos, generally,

thus that of the make. In oil mans the issuale bee a resource forched jumi-strictiger; then the tends: ... "On the whole, has forched found that of the famile shall is more pronounced thus on the male shall." The make familes shall is more strongly sreading. "It points out that even in the Nordic most course with other beholds admitstray the typical frames gettile to less applies these the main penils. The applicative of the Nordic irrance with a steep forched is then more of the type D in Fig. 9, called by Shareman kim "Contraportics." We shall deal half these forces the proposed in the new the state of the Nordick three forcesting belongied anthropological compensation. in a later chapter.

The Bype of Jacanch, which agens to correspond in essentials with the pylanic-cyclethymu type of Kirchathmer, she has "a tendency to a thick space" (Pundt Houselinians and Cherafter, Leipzig, 1928, to a track space (Fremen, Appendiculary and Character, Lerpzig, 1922), p. 60). This is notiverably breams the fibric text is very characteristic in the pylonic. Kratzkaser does my mention the weak development of the bath of the shall its pylonics. We have, however, found this repeatedly, and it is also sampling from the phylography of Arctschinge and of Lans.

as far as our material goes, seems to have a ceasing divetendency. On the back of the hands we find the characteristic soft, tough, fine-textured, velvety skin, with an attractive creamy offer colour. The general principle of hairage in the pylanic type is celatively weak primary (besd and hausgo), with well-developed secondary (besd, chat, pubes, etc.) hair. The head fast in pure cases inclined to be andt and often wavy. The hair does not grow down over the face, but leaves a good forshead (vide measurements), and in older susterial hald heads of a regular shirty type are frequent. The brows often do not join over the base of the nose. Beard—important diagnostically—remarkably evenly distributed with fairly wide boundaries and somewhat deese growth. Pubes, amplia and chest hair well developed.

13. Special Dyuplastic Types

(a) General.

Kretschmer places this heterogeneous group of types alongside the leptoneous and stabilite types as constitutions showing a biological affinity to Schizophrenka, and in this manner to the Schizo-personality generally. They are less common in normal material but as they seem to be intimately related with glandular-dysfunctions, we abould expect them to be of more importance in such borderline subjects an psychopathy, criminality, faeble-mindeduses, etc.² These phrases desorbe them generally:

¹ In Nysjachurge's pepthological material, 38 opt of 380 vers dysplastics and all of these Schwaphwerges Knyspundeg (qd. 64) has above that more rest half of bir 789 opilopites were dysplastic or had striking dysplatife features. The dyspranctive rehands that Lumbrance indicated to be more prevalent in 89-sets crimothes would also largely lail order to be more prevalent in 89-sets crimothes would also largely lail order above interface in a confidence in the striking of the set of the striking of the set of the striking of the set of the s

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"They form striking digressions from the average"; "such forms of growth as vary very markedly from the average and most common form of the types"; "they impress the laity as rare, supprising and usity."

These types have by no means been adequately described thus fav, so that especially in juvenile material, it is sometimes entremely difficult to distriguish between them and mixtures of the main types. The following are some of the main dysplastic groups with which we came into contact:—

(b) The Etongeted Eurochoids and Intersessual Physiques

Extreme length of extramities in relation to the height of the body. Accusal privis in states, or sometimes unusual width of hips as compared with the shoulders, and the generously curved contour of the hips which, together with the graceful waist makes a distinct imminisa impression (wide Figs 14 right, 27, 23). Other ferminise characteristics frequently observed parallel with or spart from the feminise waist and pelvis in the male are: characteristic ruddy complexion complicated with naturems spittude to blush, soft skin, soft sentimental eyes, high pitch of the voice, straight hair line from ear to ear over forehead without the masculine indentations on sides, head heir going low down in neck, a county pubertly hair with a characteristic feministic localization of the

ha maght have come to a different seasilt. Takeing only variety and event development into considerable as punished convers of defilierancy, Bartlad forced 12 per cent of his mele cases where these conditions figures as "probable factors". That combinational execution because the primarily on near-quamblaic dyeferoctors will be never frequent in delinquents than in nursulate is, it thous, is smalled conditions to the frequency of psychopishly in delinquency prior XXIII, aboved. The fact that Michael expirition of the property of the SXIII, aboved. The fact that Michael expiritionart. We also from the fact that the continuous and anomalies are more frequent in officients than its morania. Thus far Also Birtubaux (p. ed. p. 9) mentions that bottly constitutional anomalies are more frequent in originals than its morania. Thus far this issue was prejudiced instances, by the fact that twestigators were looking for a homogramous groups in criminals rather than simply investigated with a view of sinding and originate constitutional anomalies to cover much more frequently in criminals thus in anomalie project. 3 A. Lexe, Grambins and Engineering, p. 188.



 Asshenic gracting types. Feminine, infentile, and authoric physique, esp.



Fec. 19. plame at Fig. 14.3

genital hair. I also believe to have observed that the chest and absominal parts of feministic types make a feminine impression if viewed in profile, and that the trapealus muscles are attached to the shoulders further away from the arck, producing a gradual alope from the neck towards the tips of the shoulders (vide Fig. 14 cight, 23). Forward heading (kyphosis) of the upper spine, I have also noticed frequently.

From these descriptions, it becomes obvious that there are some similarities between the leptosoroic physique and these intersexual types. In cases where the legs are not excessively long, or the feministe characteristics very pronounced, they may be conveniently taken as a subgroup of the leptosoroic type. Host in many cases the intersexual factors are connected with dysplastic athlatic factors and must there be considered in that fairly different arrangement (see Figs. 2s., 2s) (Masculinism in women is also considered a dysplasia by Kratschmer. We have not studied women delinquents and these therefore do not concern we here.)

(a) Infantilism and Hypoplastics.

All-round hypophasia leads to a kind of miniature addition. This I found is pylmics as well as in leptocomes and athletics. They were fisirly proportionately built, but in all respects on a small scale (vide Figs. 15, 27, 18). I think this in the few cases which I found there is also something of a mental parallelism which points in the direction to be expected from a study of the normal types to which they correspond—only more infantile. We shall discuss this when dealing with the mental side of the typology.

I have further found instances where not only the size constituted a deviation from the normal, but also or even mainly—the headform, secondary bair, develop-

¹ We shall further discuss thin fact in a latter chapter. The sunuchold at well as the leptoneme is inflicatedly annanched with the status thymics Lymphaticus according to Pecits, Junes Saladies, Bertin, 1823; also Berma, Glaude Regulating Presentity, New York, 1828.

ment of the pipples, or facial form and expression, made a markedly infantile or minitive appearance (vide Fig. on, at centre), especially if the are was considered. There seems to be a discrepancy between the physiological and the chronological are or between certain factors in the physiological development and the real age.

Such infantilisms in shape or size, or both, may pocur in certain constitutional sub-parts only, while the rest of the body constitution seems better developed, e.g. absence only of secondary hair, or hypoplastic facial proportions, etc.; though here, as in all other symptom fields, it is disastrous only to go on isolated symptoms. In our cases we were almost absence able to indicate various other dysplastic features together with the at first apparently isolated hypoplasias. Some such dispreportionate trophisms are found in the following types:-

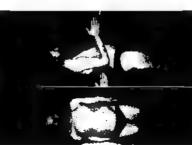
(1) Hypoplastic face type, where one finds insufficient modelling of prominent parts, such as mouth, lips, and chin; syes deep-set, piercing and, due to the insignificant

nose, too near together.

(2) Acromicria, i.e. "an elective hypoplasia of the limbs, e.g. hands and feet ". In such cases, the limbs from the knes and claus downwards become discreportionately small and delicate. What makes this development more atriking is that if aften occurs in well-developed shoulders and physique generally.

In figure to we have something of acromicris. If we examine this individual curefully, however, we discover other dysplasias as well, e.e. the lower part of the face shows a marked hypoplasia; the lower part of the body, the flat chest and astheric build (generally slight musculature, absence of fat, long bones, thin joints), is out of all proportion with the broad shoulders. His armpit-hair is shight, remital hair weak and localized, and at the age of 10 there is no sign of a board or moustache! The skin is of a very fine texture. It will be instructive to compare some of his measurements with those of the average leptomane type, to which he is the nearest related (averages given in purenthered :-









Width of shoulders, 37-3 (38-6); of chest, 27-6 (27-9); of hips, 31-1 (32-0).

Height of mid-face, 7-4 (8-0); of chim, 4-3 (4-7); of body,

107 (174).

Circumfarance III skull, 57-5 (55-1); overhead from our to ser, 35-5 (34-0); of chest, 85-5 (83-3); of hips (trochanter), 83-5 (86-2); of foreston, 26-0 (25-2); of call, 20-0 (32-5). Length of legs, 85-6 (91-0); of hand, 17-2 (13-6).

Pignet's index, 27-3 (30-1).

These measurements show more mathematically: the very broad shoulders; normal obest; under-developed hips (if we compare the distances of the trochunter and the ilin-opinate from the ground. 85-0 and 94-5, we get the impression that the polvis crest bones (ilis) have not diverged authientity at the top, and have grown upwards instead of outwards); hypophastic lower face in spite of a large skull; weak bodyfuliness—even if compared with the leptosomes, the thinness of the types—which is in attained disproportion to his shoulders. His hands are excessively small, and from the figure this can be seen of the fact, too.

We have dealt with this case fairly exhaustively, in order to indicate the following points very emphatically:—

Firstly, dymphosic features cannot be considered as isolated stigmans, or degenerate stigmans, in the same of Lombroso. But the proportions must be considered and various additional dysplasias in all the constitutional features must be looked for.

Secondly, it shows the value of measurements to not as a check on the trained visual observative powers.

Thirdly, it stresses the value of photographs.

Fourthly, as we shall see in the mental part, extremely interesting correlations between mental constitution and bodily constitution cun be discovered.

(d) Fat Abnormalities.

Such strong fet accumulations of dysgiandedax nature differ from the pylonic fat which is usually confined to the lower face, meck and trunk (belly). Polygiandular or dysplastic fat would, for example, be an isolated layer of fat round the bustocks, or over the crest of the pelvisbone (wide Fig. 46). Sumetimes the whole body is encased in a diffuse layer of fat, together with plump features, course head hair, weak beard, etc. In some instances. I found exceedingly soft, childlike head hair together with the week beard. Various dysphastic features usually occur together and in this way the diagnosis if facilitated. But in juveniles, where the semodary hair cannot be to seriously considered and the facial and bodily features are not yet adequately differentiated. I sometimes found rounsiderable difficulties in distinguishing between these fat dysplastics and pythose with athletic admirture fulfs Figs. 45, as and eases 50, 61.

(a) Athletic Dysplastics.

There are many transitions from athletics to dynalandular builds.1 Such types usually retain the heavy bones. broad aboulders, and muscular powers of the athletic. But they vary in all directions from the characteristic proportionality, tailness and straightness of body, prominent facial features, etc., of the athletic. Illproportion and plumpness are their outstanding characteristics. Knetechmer says: "All proportions are ugly, massive, classry; the skin is pasty and sometimes obscured by diffuse fat-layers." We have in some of these variants also noticed a forward bend of the upper spine (kyphosis) and occasionally very weakly developed secondary hair. It is possible that feminise or intersexual constitutional factors also play a rôle here; because hyphoxis of the upper spine, peculiar attachment of the trapezius muscles to the tips of the shoulders, localization of genital hair, and forehead hair-line seem to have some connection with Mathes intersexual women and with feminine males generally. On the mental side also, hysterical and teminaid characteristics could be found in some of these (vide Figs. 22 and 23). Some of these illproportioned, yet strong, ragged builds also seem to

Kretschuer, Physique and Chemile, p. 28. Empeaberg in his study of 700 splinguize has also hand memoran dysplantas in apliquite athletics.



Fig. 20. Infantiliens (ages 16-17 years).



Fig. 21. (Seem an Fee. 20.)

incorporate infantille factors in their constitutions. Such infantile traits are frequently seen in the poculiar head and facial forms (wide Fig. 2x course), and also in infantile levels of development (courses), etc.).

Apart from these tall, massive, big-boned athletic desplastics we have found other variants, or perhans types of their own, who are so short and muscularly thick-set that it is sometimes difficult to distinguish them. from athletic-pyknic mixtures. In fact, we have generally experienced much difficulty in distinguishing . the olump dysplastic athletics from athletic pyknic mixtures. and we feel sure that this is undoubtedly an important source of error in classifications according to Kretschmer's typology. We have got much help from the following principles of division: the skin of these plump athletic dysplastics is masty, mats and coarse of texture, whereas pyknics have a velvety, soit clean and finely-textured skin. The even of pyknics are more protruding, large and spirited (Basedowold) A very important differentiating principle is also the coarsenses of fibre and straightness of hair which are very pronounced in these types if compared with the soft, flat-lying, often wavy hair of pyknics. The relative length of the legs and rump is another significant differentiating point in this respect.

Especially in our juvenile material we have frequently found the dysplandular, peary fat-layer chisting and then they are still more easily continued with well-trained muscular pyknics, unders the skin, hair, eyes, length of legs and trunk, etc., are also considered. This more lean group of short, ill-proportioned athlethes or dysplantics gives somewhat the following impression: heavy growth of coarse-fibred head hair reaching low down the neck and the forehead, producing a low square forehead. Relatively broad shoulders and long legs if compared with the trunk. Must, commen skin, samethmes giving the impression of a small-pox face, thick legs (Figs. 25, 24 Inft). The "Tower-skall" frequently found in the athletic

The "Tower-shall" frequently found in the athletic group is perhaps also a dysplastic variant. It is characterized by a come-shaped skull, under which "sits a very long, bony face with a prominent seutonose having a sharp depression at the nost."; heath-like, strong beard, and bushy hair; tall, ill-proportioned hody.

14. Mistures of Types

Kretschmer constantly admits that mixtures between the types are perhaps just as frequent as relatively pure cases. This condition also obtains with regard to the types of Jaensch and the other biotypes. In fact, it is a condition prevalent throughout nature.' We know to-day that we hardly find a pure snale or pure female constitution. There are innumerable grades of transition from the one to the other. The very term "type" stands for a relative prosouncement of a hierarchy of qualities which is not definitely and absolutely demarcated from all other possible pronouncements of quality-hierarchies. The one type is senarated from, and merges into the other. Ilks one hill into the other, with a wide shallow dale in between." It has been pointed out that this state of affairs makes the Eretschmer typology fand all other biotypologies) assuited for practical application in delinquency. This must certainly be admitted, but a purely psychological division of types suffers from the same fault and, moreover, has the disadvantages that the additional information to be pleased from the physical constitution for a pure psychological typology is lost, Moreover, as long as we keep this fact of postable mixtures in mind, and exercise the necessary precautions, the very mixtures become vastly interesting. We shall see in the seggel how interesting for delinquency such mixtures as athletic-pyknic, leptosome and athletic, etc., become. We should think of the types not in the form of nizeonholes, but iii positions on a scheme such as any proposed "Triangle of Temperaments" (vide para. 58, Figs. 50, 51).

Professor Federius, Mültelinigen der Heim. Biol. Gov., 1828, p. 39.
 War. Stern, Diffessolule Psychologie, 1921, Leipzig, p. 168.





F16. 13.

In this way, mixtures will assist a more subtle differentiation of sub-twees both on the obvaical and mental sides. It is by comparing various mixtures with one another, in regard to specific constitutional, and various other dysglandular, vegetative and neural features. that we can eventually reach more differentiated correlations between the mental and physical sides of the constitution.

We find all possible sorts of mixtures. Pyknic head and shoulders on athletic learth of less (vide Fig. 44); small lantosome skull on something of a pylonic fant (beard and roundness, profile line) and trunk, and perhaps again, leptosome legs; pyknic roundness and fat with very strong and heavy muscles; pyknic face and body lines with pronounced width of shoulders, etc. The training necessary to observe and describe all these characteristics adequately only comes with long practice, as Kretschmer has mentinged.

These descriptions briefly give the body-constitutional side of the typology of Krettcheter. We have already indicated a few of the relations between the physical constitutions of Kretachmer and W. Jaesach such as the syss and skin. In later chapters more and more relations will in the course of our expositions be shown. This does not only apply to the types of Jaenach, but also to the endocrine types of Berman, Pende, Brettmann, etc. : the big-types of Ewald, Mathes, Weininger, Huter, etc.; the common anthropological racial types. We do not by any means contemplate a treatment of all these alaborate typologies; but we are strongly of the opinion that the Kretschmez-types, with which we deal here primarily, are by no means unique. It becomes more and more evident that with further accomplation of results. it will be possible in the near fature to reduce all these typologies to the same simple formula of biological principles. Accordingly, while dealing with the Kretschmer types it is both attractive and necessary to compare them with aspects of the other types. Also, where we are attempting to reach alsopper differentiations

If the types both on the physical and mental sides, the other typellogies sometimes are of considerable assistance.

15. Races

The authonological races are also described by measurements and in terms of a similar kind as that of Kretschmer's types. A vast amount of work has been done by anthropologists up racial characteristics and it will be instructive from the physical side briefly to compare here some of these characteristics with those of Kretschmer's types as certified in this chapter. To me it seems to be fairly obvious-and it has already been stated by authorities that there are intimate relationships between the leptosome constitution and the Nordic race, the pyknic constitution and the Alpine race, the athletic constitution and the Dinaric race of Europe. It is a foolish issue to decide whether Kretschmer meraly dealt with different races or whether anthropologists described Kratschmer's types, especially at the present state of racial admixture. One thing seems certain, and that is that a large percentage of the Nordics are athletic leptosomes, of the Alpinics are pytmics, and of the Dinaries are athletics. Let us mention a few of the physical characteristics of each which seem to prove this :-

Nordics and leptesomes: Tall and slender bodies; length m legs and arms; receding to cheesed; long, narrow nose with tip drawn downwards; then lips (anch characteristics m the strong beared of the Nordica indicates

that there are also important differences).

¹ Guerber, Nersadwald, 1970, p. 198. It is, knower, tricked, t.g. by Hecchet, who shows that in terrimines productionally libertied lip came or other of these mere all the compitation types are found. The question schedular steen are unally only constitution types can, as Cauther points out, belieflar steen are unally only constitution types can, as Cauther points out, briefly be desirable. If went if this corresponds to which these recess after their common copies were subjected, acted schedulerly to produce the divergence. But the actual copianation must went then be found in physiological countificor secontally. Meler also, L. Prinn, Arches J. d. San. Psychologica, Bal. 60, pp. 1–16. Clark and the actual compitation of the control of the





Fig. 24. Same person, but eight was taken night manche after left; to meastion buy had devaloped a purey for layer,











Pag. 27.



Athletics and Dinaries: Remarkable tallness; steep back of head; "high head"; prominent nose with high bridge; characteristic form of the lower jaw; course features throughout; large ears (the athletics of our material, however, show meany Nordie characteristics as well).

Pyknica and Alpinics: Small height; thick-set, compact; broad head, short thick neck; short legs; fut accumulation on neck and trunk; full-moon face; prominent dorse-mapped forebead; small to medium nose with bridge sometimes bent inwards.

On the mental side there are also many interesting points of correspondence. We shall, in footnotes, refer to some of these similarities as we continue. Here we may perhaps mention some interesting facts on the mental side as found by the Jacroch school. E. R. Jacnach indicates that he experimental research on school children, the French proved in belong to the B-type (K's cyclotype) much more frequently than the Germann of Marburg, Also, W. Jacnach states that the B-type is frequently connected with dark hair and a dark iris, the T-type with fair hair, etc. W. Jacnach admits frankly that the T-type has relations with the Nordic race.

¹ E. R. Jassech, "Zur differentiellen Volleerpsychologie," 2th Konyrus f. Eröt. Psych., Leipzig, 1923; W. Jassech, Grandelge, pp. 108, 146, 147, 162.

CHAPTER IV

THE MENTAL SHIP OF THE SCHOOL-TYPE

16. The Schins-hermachity 1

In his classical work, Physique and Character, Kretschmer has, with unpersibiled vividness, richness and naturalness of metaphor, described the two great temperament complezes or temperament systems; the one ranges from the normal healthy Schizothyme, over the borderline cases or psychopaths, vis. Schizoids, to the fully insane Schizophrenes. The other begins with the normal healthy Cyclothyme, over the borderline cases of Cycloids, to the Insune Manic-depressives of Circulars. He conceives the definitely insune as a strong caricsture of the same fundamental temperamental proportions that we find in normal life. His theory begins with the investigation of pre-and post-psychotic patients and their nearest blood relatives and finally is applied to healthy normals. historical persons in science, art, politics, etc.1 He trius to bring the members of each of the two great temperament types, both normal and abnormal, into one large picture. Thus we get the two large personality pictures : the Schizo's and the Cyclo's. The former shows a biological affinity to the Leptosomic, Athletic and Dysplastic contitution type, while the latter has a biological affinity to the Pylonic constitution type.8

We presuppose adjustations on the park of the swader with the main work of Kreischmer at least. Even there who cannot agree with

their work of Kretechuser at least. Even these who cannot agree with many of the banc principles of Kretechuser's though zero through the sufficient properties of these promotion of these promotion are the supersided garbas in the supersided of these promotions. The Friedman of these promotions of the Schreider, Prophospies are the Schreider, Prophospies of the Schreider, Prophospies of the Schreider, Prophospies of the Schreider, Schre

With regard to the gradual transitions from the healther Cyclothyme through the Cycloid to the definitely insone Circular, most of the forement authorities in Psychiatry. such as Burake, Blenley, Thalbitter, McDongull,1 etc., are in agreement. But many authorities in psychiatry disagree with Kretschmer's theory that Schizophrenia is merely a hyper-acceptuation, a caricature of the normal Schizothyme personality proportions (wide Burtles, C. Schneider, Willmenns, Gruhle, Lange, etc.). Some of these, notably Bumke, conceive Schispids, i.e. borderline cases, to be normal personalities with disease " tones " or readifications just like a white race with coloured influences, but any exemptions between the normal Schlzothyma and the disease Schizonhrenia they reject. On the other hand, nearly all authorities from Kraspelin to those of the present day have found a large percentage of "peculiars", "eccentrics", "timble, sky sensitives", "cold egotists", idealists", and "dreamers", amongst the blood relatives of Schisophrenes, and also in the pre-psychotic personalities of Schizophrenes, The central characteristic of all these personalities in the "defective capacity to adapt (Einfügung) sincerely, frankly and easily to the social environment ". Moreover. C. Schneider, an opponent of Kretschener's doctrinet, after consideration of all modern investigations, states that the pre-caychetic characteristics mentioned are retained in the typical Schizophranic social behaviour, i.e. the eccentricity acts pathoplastically; and the typical pre-psychotic

need in stry definitions. These letter from are only explained in the second as they dose, and, being managinal individual and notomaton beyond, connot be used to employ the the former. It would be very math like defining the known is tooms of the colinows, because must readers have more of her what we mean by bengaramant, etc., but 20% to dearly share we come by "nyclambility proportions", other 20% to the total clearly share we mean by "nyclambility proportions", 20% to the common of the control of the

personality traits, such as sensitive reserve, determine

Bumles, o). etc., pp. 209, 600; C. Schuelder, Psychologie der Schienfermen, 1830; p. 255.
C. Schuelder, o). cir., p. 234.

or constitute sente of the essential features of Schizophrenic mind. We are not in a position to discuss the advisability of conceiving the Schisophrenic mind as an extreme caricature of the normal Schizophysis mind. Even if later psychiatric research shows this to be improbable, the "Schizothyme temperament", i.e. the temperament prevalent III pre-psychotic persons and their blood relatives, remains a valoable working layophesis.

Kretschmer gives the essential features of the Schizothyme temperament in this order of frequency:-

- (1) Unsociable quiet, reserved, serious-minded, eccentric, (2) Timid, shy, with fine feelings, sensitive, narross,
- excitable, found of nature and books.

 (3) Pliable, kindly, honest, indifferent, dell-witted, plant.

He sub-divides them into the following sub-types 1:-

Hypermethetics: Nervous exclusibles, tender introverts,

Idealists,
Medium Schizothywes Cool energetics, systematic
consequents, consequed aristocrats.

Annelhatics: Cold nervous, distorted accentrics, indolents, affectively lame, duli-wiread loaders.

These characteristics, accordingly, we should find in leptosomes, athletes and dysplastics. It is not obvious that on the psychical as well as on the physical sids we are dealing with wary broad, haterogeneous groups, and

¹ Form if Schlieppherals as a moreal dessen has no liberpet volkious be Schliebthymia, the value of psychopathening in this probable freahes stablaten. It was only possible to looke this type of permeability is chaired represence with Schliebthymia consecurity of the Chinebthymia compensated is more prevented to gree psychiatry goes when thy as a not present of the chinebthymia compensated is more prevented to gree psychiatry goes are not present (day are not groupe of Schlieppherais, but my fact as the probablymic compensated), as that the Schliebthymia compensated (Rember & deal), or the dresse, Schlieppherais, has an affectly five cytrial budy-type, just as the normal minut the Cyclothymia compensated (Rember & deal), or the dresse, Schlieppherais, has an affectly five cytrial budy-type, just as the normal without these being any financial no conservation between Schieppherais and the Schliesthymia temperament. Fram C. Schnatzer's long drawn out and ingentions criticisms of Kingsteguer's "Schlausthyma" throry, however, one gets the impression than what flasy really differ about is the nature. If "Schnieblages" (Spenishag, consultant) by schritted for "Arterbahme, Arnelfethiolds Psychologies, Lelputz, 1998, p. 184.

that very much of the unactical value of the Schizothyme type is lost because of the long correlations with various physique types. Subsequent researches on the Schizothyme physique types, however, have made the following relations multiple 2:-

(1) The leptonome is really the true Schizo-physique, because imploacemen more than any other types are prone to

Schizophrenia.
(2) The athletic is more frequently connected with the " and anneald " character.

(3) Dysplastics form the bulk of the "antientin" characters

17 Differences between Leptonomes and Athletics

We saw that on the physique side there are Important similarities between leptosomes and ashletics. But there are also such striking differences between these two types on the physique side that, if the temperament and the physique are at all narrowly connected, we must expect ind correspondingly strong differences between the temperaments of these two types. Such differences have, as we stated in the previous paragraph, been found both Athletics and dysplastics certainly have intimate connoctions with the Schisothyme group. But Kratschmar and his followers have found statistically, and he has expressed this amequivocally, that: "The leptosomes appear as the predominating type of the Schizo-group." According to Prvita, Berman, etc., the endocrine personalities, viz. the tetanoid and status thyunco lymphaticus, who are susceptible to Schioophrenia, are undoubtedly of the lentennine bodybolid and not so much

I We admit that this statement requires a substantial confirmation. In the security we shall, in the supper males, addeds off the results and considerations, which we know all, in substantiate these important

Kretschmer, Madininische Psychologia, 4th ad., Lalpete, 1690, p. 158.
 Perita, Stafellung in die Ribelt die Immere Schweise, Sectio, pp. 185. 184, 243, 256,

athletic. Ewald,1 reviewing the present state of the body-temperament theories, states that Kretschmer is certainly near the truth when he attempts closer correlations in the following manner: leptosomic and authoric physicise types tend to affective commedness (Affektverkrämplung), love abstract thinking, are angular and unfree in their movements, tend to sexual conflicts (intersexual type of Mather). Escald also mentions that athletics and dysplastics often show explosive affectivity, formerly called epileptoid. The statistical studies of Kretschmer and his followers on clinical material support these views that leptonomes predominate in pure Schizophrenia and athletics and dysplastics in the epileptic syndrome. 1 In 194 Schizophrenes Kreischmer found &r leptesomes (= 46 per cent), and only 31 athletics (= 18 per cent) and to dysolastics (= 10 per cent). In epilepsy (700 cases) intensive investigations showed the relative insignificant percentage of leptonomes (+ 12 per cent) as compared with Athletics (± \$2 per cent) and dysplastics (+ as per cent). Langfeldt in an extended investigation found legeographic predominantly amongst catatonics with significant other qualities, such as a very low hasal metabolism and soft testes. Athletics on the other hand, he found to be more common in hebephrenias. They showed a normal basal metabolism and hard testes. He also behaved to have shown differences. in sympathetico- and vagotonic in these subdivisions of Schizophrenia,* Wexberg * indicates that leptosomes predominate in psycho-reactive depressions (he even speaks of Schizoid depressions), but that athletics are more seldom among these surrious and self-insufficient feeling persons. Weaberg also quotes an investigation of Professor Lance, who found only one peknic and o asthenics Professor G. Evold, Die Etsperliche Grundlagen der Churakters,

Laipsig, 1998.

Leipzig, 1988. Character, p. 25; Kunyunbung, Kepheriaa, Epithyria et Physique and Character, p. 35; Kunyunbung, Kepheriaa, Epithyria et Physical Character, p. 36; The variant under the purposal geldacts of Maria, Caracter, Physica, eds. was obtained by Delevick, et Radices, Maria, Caracter, Niesia, eds. and p. 32; Lyckft, f. Hermushibitumia 1937, Bd. 97, p. 188.
1 S. Warberg, Zentife, f. d. a., Ever. and Psychiatrics, Bd. 113, p. 549.

MENTAL SIDE OF THE SCHIZO-TYPE 60

flentosomes), but no athletics, amount ix cases of psychopenic deression.

a recent article.1 Kretschauer has acknowledged the connections between athletics and dysplastics on the one hand, and the endentold character qualities on the other.

On the experimental usechological side, a follower of Kretschmer, Rahe, has also established many important differences between athletics and leptosomes; both types are much more subject to pensistent cramped attentive attitudes fintentions), and to perseveration generally, than the pylmic type, but leptosomes were much more so then athletics. The came can be said of the ability to do different tasks simultaneously. In handwriting Enke found that athletics differ atrongly from lantosomes in the presence on the nib. angularity of writing, etc. (vide Fig. ta).* These differences in handwriting are avangement is of differences in temperament (Klazes, Saudek). A very important fact is that according to our own and Enke's experimental finding. leutosomes are the best in small, delicate hand movements, while pyknics come second, and athletics are the worst, This is found to be so in spice of the fact that leptosomes are more shaky, due to " strong inner tengions" [excitament). Athletics often handled "the lever-arms very olumativ " and corrected their drawings by " making use of excessive force". Theoughout Enke's descriptions the impression is created that the lentosomes are more accurate, more nervously auxious to excel and more Wary against pitfalls than the athletics. In a test where heritations depended on suspicion, on the tendency to safeguarding, "assurances" in Adler's sease, reserve and care of the subjects, such hesitations were found

Ang. Types, 190. To any gr. Co., any one, or a second property of the Paperty. I fill example is from our own investigations in connection with the handwriting of types. Mr. R. F. Lighton, of our multiple, will shortly publish the results of these investigations.

² Enler, "Die Psychomotralit der Kombitetlemtypen," Zirchft. f. Aug. Psych., Ed. 26, 39, 251, 257, 261, 277, 288. Kreitschmer, Med.

in per cent of the pyknics, fit per cent of the athletics, and so per cent of the leutuscenes.

These facts and comiderations clearly indicate that attempts are being made to savive at a differentiation between the leptosaures and the athletics on psychopathological and experimental psychological grounds. The results seem to be that the leptosaures form the typical Schino-type, while the athletics must be considered in the light of the spileptoid studies and according to Delpritch's 1 exposition of "Driven-Bound".

Also, in his individual analyses of temperaments in his earlier works, Kretschmer frequently indicates that the bulk of his Schiso-group who have the "sensitive affectively lame" temperaments, also have long, alender bodles, e.g. such phrases as "Hödderlin type," "mimosa natures," "byperessbatics of bet little strength, little resistance and weakly impaised." Bot-house-like, blooming of an issuer world." are found together with exxual bimarketity, mother-fixation, social timidity, and above all, in descriptions of long, lean bodles, thin noses long thin hands. Thus unanustakably indicates the laptonome and especially the more authentic bodybuild in conjunction with such temperaments."

Apart from the results in Kretschmer a own institute and the psychopathological evidence, other investigators in more practical fields have found significant differences between laptoscoses and athletics. Pfahler believes that in art the leptosomes may be more inclined to the group of remantics (i.e. sensitive, tender, formanies, retring

³ Delbrück, Analis. J. Papel. and Manachagabbeites, Bd. 88, 1898,

p. 70%.

'It is true that Kertschmer alm describes the crici memative types in "heag lean frames"; but he expensive states that, "the restriction in "heag lean frames"; but he expensive states that, "the restriction in the states are private the asset important schooled trype of temperament; it may rate of the most important schooled trype of temperament; it may rate of the most important schooled trype of temperament; it may rate of the most important schooled trype of temperament; it may rate of the most important schooled trype of temperament; it may rate of the most of th

individuals) and the elegines, while athletics may represent the pathetics (more strongly flavoured, impulsive and active nature) and satisfies. Leas: Ahas found, as we shall see in the sequel, great differences between the leptosomic and athletic criminal. The same can be said of studies on criminals by Professor Bölssur."

These differences between leptonnous and athletics, etc., on the psychical side are very important from a theoretical and practical point of view. Wable *has tried to some extent to ridicule the body-temperaturent theory of Kretschmer by pointing out that extremely powerful, robust body-builds, full into the same temperaturent group with the exact opposite body-build of the weakly and tenden. Also, as long as we cannot differentiate on the psychical side between leptonomes and athletics, very little practical value, e.g. in delinquency, can be derived from the typology.

Even if the main difference between the athletic and leptosomic personality is in the asthesic-athenic form of experiencing and reaction—a quality in class resprecal relations with body strength—this would, as we shall indicate, make a remarkable difference in delinquency.

28 Liphosome presentality and delinquency: Authoric

 (a) General orientations about the authoric experiencing of legissomes.

"Our psychical relation to the axternal world in a play of forces in which we alternately have on the one hand, the constituences ill superiority, of joyful power, of control and action; on the other, the consciousness of interiority, of discousness of superiority of discousness of the control of the cont

A. Lena, Grambies des Eriminalisidaris.
 K. Bohrass, Monatolirili f. Ernadualisyschologis, Haidelberg, 1996.

pp. 189-200;

Cotod by Frahler, sp. col., p. 182.

The differences between the legitescenes and stiffation will also become more evident in chapter IX where the bioglopsical bases

shame."1 Some human beings are more disposed to the former, the sthesic, form of experiencing and attitude towards the outside world : others, again, are more disposed to the latter, the authenic form of emeriencing and attitude towards the external world. These athenioesthenic anticoles of neuchical behaviour have been worked out elaborately by Ewald in his scheme of characters. But as far as I am aware, the ourely osychical polarity of athenic-eathenic has not been definitely co-ordinated with physique types. In fact, K. Schneider warms against the simple predication of aethenic temperamental qualities to the authenic physical habitus.

We have found, however, and shall indicate this fully in the sequel, that the more one moves away from athletic mixtures towards the pure leptosome and the asthenic bodybuild, the move frequently does one also meet with authenic temperamental qualities. Asthenic temperamental qualities, or authoric attitude, form of experience and reaction, are here to be understood as the opposite of athenic qualities in the sense of Kreenchmer's definition given above, or according to the scheme of Ewald. Such authenic qualities are as follows: Weak self-confidence. sense of inserspity, timidity, shywess, besitation, reserve, inhibitions, etc. On the other hand as we move from the asthesic physique through the pure leptosome towards the athletic leptosome and the leptosomic athletic physiques, the attitude towards life and the environment becomes more and more sthesic. We find an increase of the following sthesic qualities (in the above sense):-Love of resocusibility, leadership qualities, strong and persistent energy physically as well as psychically, boastfulness, self-confidence, mayoriting obstinacy, intractability, active jealousy, sarcassu, sportsmanship, love of adventure, active ambition, sulkiness, systematic mistrust, etc.

Med. Psych., p. 194.

² Ewald, Taypen, p. 180.
3 Ewald, Tompounum und Charabhar, Bextim, 1930, and alta Hoffstana, Anflew dee Factellichind, p. 42. Lata, Erinfradbelagle, p. 189, also quoten Jung to sloye that psychoathems is the previous linear policies.

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Where III the acquel we shall attempt to establish this relation between authoric-schools mental qualities on the one hand and leptonomic finching asthenic) and athletic physical habitus on the other hand, the terms atthenic temperament and experiencing remst not be confused with the asthenic labitus. The two applications of "atthenic"—once to a type of mental behaviour and again to a particular seguntic condition—must be clearly distinguished.

The leutosome described by Kretschmer is nearer the authenic physique as some later writers, e.g. van der Velde, have interpreted it. In fact, in his original works Kreischmer naed the term authenic for the general form (now berried leptosome) as well as for the extreme weakly variant (now termed authenic). It is important to note this, because the type which is so prone to achisophrania. and which we are here discussing as leptosome, is jumally comparatively weakly built or, more definitely, is nothing more or less than that described in paragraph o. This long, lean type with thin muscles, etc., is the same type as that described by Perits in connection with tetanoid. by Epploger and Hess as vagotonic. It has intimate biological connections with the status thymico lymphaticus which is already an early puberty extreme. These types are taken to be asthenically inclined psychically by Paritz and others. We also find that the class of Schizothyme temperaments most frequent in Kretschmer's pro-psychotic personalities, vis. the "sensitive, affectively imme", made up mainly of asthesic, psychical qualities. He states definitely that the passionate-insensitive or brutal variants of the Schizoid group are usually post-psychotics.

³ Th. v. d. Vulde, Do Startynling for Exhibition of Store, Lebens, 1987. ⁴ Physics and Gloraniae, p. 188. The type of the sensitive effectively learn. • the scort represent schoold type of bempetables, at any paint. ⁴ Indeed, most of Stores green purchase foundations and starting points. ⁴ Indeed, most of Storeshour's chemotratization of the Schlaud Storeshour and Storeshour and Storeshour Sto

i.e. persons whose more delicate super personality structures have been devastated by a Schizophoenia attack. He also mentions that the presionate-insensitive outbursts have many connections with cortain brain-traumatic and epileptic syndromes.1 These syndromes we shall later bring into relation with desenceate athletics. Our contention is, therefore, that the leptosomes, as described by Kretschmer, and more particularly the authenically built lentosomes, are inclined towards the asthenic form of experiencing. This we believe to be supported by Kretschmer's own feedings because the most common form of Schispid according to Kretschmer, is the timid one, and the most common physique in the Schizoid group is the lentosome (or aethenic) physique. We may, therefore, expect a fair correlation between timidity and lentersomy. If we so more tate details it is not difficult to prove that authoric characteristics agure largely in Kretschmer's descriptions of the Schizothyme temperament, and also in the Schlzoid pre-osychotic temperament. Compare anch qualities as mother-fixation, fear with tears of a tyrant father, sexual besitancy and timed excitement. relations with cirls, fear of couch school games, submimlen to tessing by school-fellows, excitable timid nervousness, homesickness in a boy of 17, four at the pight of blood, sender hyper-methetics, of but little strength little sesistance and weakly impulsed hothouselike blooming inwants to escape the barsh contacts with the external world. Such characteristics, which are the most prevalent in Schizothymes, demonstrate indubitably that the leptonome is largely asthenic temperamentally.4 The sensitivity is also largely due to such aethenic qualities with a sthenic "strain or antipole".5 femly moted in the asthenic framework.

¹ Physique and Cheanthe, pp. 168 and 178.
³ W. Jasonsch be characteriding the T-type, which corresponds to Karbettiner's Schlaud, quoten Francuse Kash: "The typical tobardal to other pettings, sourious, Storeur, and suspicious" (formalogue, p. 128), "Krintchiner, Med. Prysik, p. 198. Mennechnier is an acknowledgen artherity on the purpose and minimals analyze of Semulter Paramata which such as a superior of the purpose and minimals analyze of Semulter Paramata which produces the purpose and minimals analyze of Semulter Paramata which produces the purpose and minimals analyze of Semulter Paramata which produces the purpose and minimals analyze of Semulter Paramata which produces the purpose of the purpos he explains in these way as an authoric-atheric function.

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Idealistic, crotic, or egoconscious ambition usually provides such a strain or antipole. The asthetic temperamental characteristics and the sensitivity of the leotosome are inextricably interwoven with his sexual peculiarities or azomalies, his autism or defective social congenial adaptations, his love of unione and solitude, his idealism and abstract thinking. The more we analyse all these intrinsic analities of the leptosome group of Schizothymes. the more clearly it dames muon us that these qualities are only different aspects of the same fundamental biopsychological complex. As we shall see in later chapters. too, we simply connot explain the negative, selfinsufficient, voluerable, shrinking and blooming inwards attitude of the leptosome as due to the experiences of continuous defeats in all fields of natural adaptation. We know, for instance, that masculinity, aggressiveness. arger, muscularity, physical strength and endurance have, also in the animal world, intimate connections with the adrenal cortex, the prepituitary and the male interstitial glands and their neural controls.1 The agreemivement or submissiveness is therefore not a result of experience only, but is determined neuroglandularly, The same applies to feminine corpess, authorisal veness to the male, tenderhearted nervousness, lack of sexual aggressiveness. These femmine characteristics are very similar to many of the leptosomic characteristics and, as we shall see later on, there is much of "intersecuality " in the leptosomic physical constitution. We also know at the present day that in the first stages of unberty we

Herryan, Glovel: Bayeleting Presentative, New York, 1928, pp. 72, 188, 180, 267, abov Presde, Listabilistics and Entwern Solvetics, Medicina, 1824, pp. 13, 23, 24, 38.

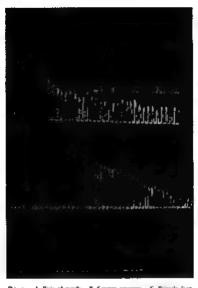
¹ Mathon, the summent aretherity on familie constitutional types. Headback for Franchaid-Hong, BM. S Wissen, takes the high-broome as an interactual type. The interactuality of the hydrotome is also evident from the following: Prepared homogeneously; clows constate relationship with the States Dynatics (Franch, p. 26: 20 erram, pp. 251, 2687, where make see glands are similated; constant and pychole indinatries with Einsteinfolium, convengendence, with sawly polycry phase when the property of the control o

have a similar asthesic, retreating, hypersensitive, introvertive please termed the "negation-period" by Charlotte Bühler. This attitude towards life II definitely and largely determined by physiological causes, i.u. is not purely an acquired attitude produced by experiences of a harsh world. This genetic phase of the human personality has, as we shall see all along, on the physical. sexual, and temperamental sides, exceedingly intimate correspondence with the leptosome constitution and can therefore serve such nurnouss of comparison advanately. many cases an asthenic attitude towards the outside world, however, experience and constitutional dispositions work together to produce the temperamental state. This may give some emplanation of sometimes athletics are sometimes hypothondriscal, weakly impulsed and retreative, But, as we shall see further on, one most be very careful In diagnosize individuals as asthenic temperamentally in the athletic type, because they may sham weakness to escape penal servitude. Athletics are very unemotional and therefore may be inactive without the subjective feeling of inferiority or weakness; and also dysplastic constitutional fearures may change the constitutional reactive tendencies of athletics considerably. Numerous considerations in following chapters will give more support to our contention that the more we move to the physical authenic build the more childlike self-insufficient. ferministic, automissive, and lacking in manly aggressiveness they become: towards the athletic muscular side, the more the bold, aggressively active and real mesculine tendenties increase. The biological implications are, at we shall see, extremely interesting and significant for our biological bases of the typological differences. This authoric temperament is seen very strikingly in the causes and nature of the delinguency of lentosomes.

¹ Throughout this work we shall endowone to those very intimate correspondences between the lepimone canditistion and the early pubertial plane as described by Predissage Ch. Bibliot, Jos. September 62, Jagendiches, 1900, 1932, and Predissor Ed. Spennye, Psychologic des Jagendiches, Calengia, 1933.



Fig. 11. Change of form of exployens with sectorages performance; 30 exceeds rest terrence such and a forcesse in weight from § by; to a, 5, a legs, resp., stratus; from the right.



Pic. 29. A. Pariguel month. B. Concret engageme. C. Triangle forth.
D. and E. Formkon (Infantile).

(b) Physical machinity.

Skawran 1 has demonstrated that his concave ergogram type is found mainly in the more astherically built leptosomes and infantilistic physique types. In the delinquent material, from which he has also largely drawn, this was very striking. The following cases drew extremely concave ergograms (vide Fig. 29 8).

Case 3 .- Are 10. Convicted for housebreaking and their. Broke into private house of a woman during morning hours by climbing through window when he knew that occatoant was out. Stobe 15s, and a mounted 5s, piece. Told his mother that he had obtained money at school. First offerior was theft of 12s. Irom a Native but when occupants were away. 1 Conduct in reformatory colouriess, slow, but exemplary. Offences in reformatory : Fifthy, immeral talk ; lanving bed without permission; assisting other boys to escape—tried to abecond humself, but was captured: smoking; nuglect of work; neglegence to report from of bed to be loom. He was released on good conduct to a farmer. Absconded from this farm because he did not like to work; proved very lasy, weakly, and incapable at farm work. General characterizations: Weak ambition, very timid, and so energy. In march, always listless plodder at end of the rank. Dall-wisted, placed, though goodnatured, and if addressed sympachetically gives a friendly, shy smile. Subaltern, saggestible, slow. Sniffs his nose feebly-con timed to smill forcibly. It's physique is authoric laptosome (vide Fig. 14 right).

Case 4.—Age 17. Convicted five sines of axock theft [fowls] and once of their of wood from forest and coal from coalyard. Father discussed, mother very poor and backward. Offences in referentiatory, mil. Parasitie, weaking, thinki, long-boned, placid, deal-writed type. My observations were: placid, seamway forc. Unable to appreciate any jokes made during tests; dissesticated, large expression. His snergy weak—not only on account of weak municles, but cramped affectivity. Evil-smelling hreath, sorre on lips and legs. Mosth hanging open. Timility peoped at me

³ Skawraz, Typology of Population.

³ I have just received information (fourteen number the above investigation) that this boy, who had since been minused on quod confact, has again wholen memory, etc., from a Native link, and Correlore been recommitted to the subsamplery.

sideways. Unsociable, no interest in boys' games or conversation. Lies in sum on edge of football ground. Trins his best in tests. Physically a fairly pure (perhaps slightly asthenic) leptonome.

These are extreme cases where the lack of initiative and real social activity seems to be the main and uncomplicated cause of their delinancescy. They are real authoric, passive parasites who have to steal in a countdly. petty manner to find a living. Their ergnerams are extreme "delatigation curves" (vide Fig. 29 6) which have been shown by Skawenn to correspond to the argogram of a fatigued person.1 We may therefore assume as proved by experiment, observations, and nature of delinquency that this type of leptosome facks true activity. We have found such weak enemy in a very large percentage of leptosomes in the reformatory. In many cases, as we shall see, the lack of energy was complicated by other qualities, such as calculativeness, autism, introversion, companientlors, sexual problems, ecc. It is rather surprising to find this large proportion of weakly-impulsed leptosomes in view of the fact that Skawran shows the normal leptesome to have a fair tenacity | life and in experiments. This tenacity depends largely on their attempts to vindicate their sensitive (self-insufficient) and subtly developed exo-consciousness. But Skawran mentions also in his work that the simple triangular ergogram (not the concave form) drawn by these tenacious leptosomes come from the "well developed leptosomes" with frequent athletic admixture (vide Fig. = c). The concave fatigue curves mostly derive from infantilistic

³ Shawran fromt that this concave type of curve convengencied clustly to that of a taigured management innervolves produce. He while the period rest for No second alone he had publish the feet's time to radiate management of publish defects time to real management of the contract of

and weakly, thinly built leptusemes and persons generally lacking both in good muncles and attitude-dispositions to overcome the fatigue. The weakly impulsed, inactive leptusemes builts no largely in the delinquent material, exactly because this inactivity is such a formidable cause like deliquency.

(c) Submission to coil influences.

Many of the asthemic temperaments are naturally, in a result of passive self-amusificiency feelings towards more heroic natures, very susceptible to inducence. They are unable to resist the self-confident semi-hypnotic domination, especially of the robust subtracts of pylonics and athletics; moreover, they feel safer and overed by the bold initiative and lendership of these types. We need not labour this characteristic. The fellowing cases mock for themselves.

Case 5,-Age 18. With two other juveniles older than himself, and two adults, one of whom was IIII brother, he was convicted of many store-breaks, involving several bundred pounds worth of goods stolen, over a lengthy period. His brother (short and well-built) told him that if he want with the gang he would receive many fine clothes. He was directly willing to go, but states definitely that he was too miraid to go slose, and would never have done anything without his brother's protection and persuasion. When charged by the detectives, he immediately confused everything. My observations of the boy were : Smiled shyly but good-naturedly; mactive; weak initiative. Record shows that he changed work several times, in some cases only because he had to rise too early or had to collect money from unwilling debtors of his employer. Unemployed for more than a year at those of assest. In a subaltern quiet type, the lame suggestible leptonome, unable to overcome the influence of others under whose protection he stole at places where they could not be easily detected. In his letters, longs for home; asks his people not to forget him.

We have many such cases, where leptusomes of the arthenic kind are used or influenced by more robust

^{*} The tendency to mak protection, help, and understanding from older and through persons in also maintimed by Ch. Hilbler as a typical early puberty characteristic, eds. 47, pp. 64, 77, 184.

persons to accommon them. The conditions take on a slightly different colour when such interior-feeling leptosomes or emuchoid-inclined persons are used by others in evil practices or persuaded to take the blame on themselves. Such instances we encountered in a few cases of sodomy and in one case such a lame wretch with a low mentality was apparently used by his own father to hear the blame of the father's stock their

Case 6 .- Age 12. Stole watch, fountain pen, pocket book, etc., from an open pertunents in a ratiway caboose, belonging to a former employer. The caboose was unattended and the boy knew where and how these things were kept. No offeness in referentery, but without energy and backbone. Warden save he is a real "mother's child". "Mayunla like a little child in his letters. Somewhat sly attitude in testroom. No suertion on football field. Extreme lack of self-confidence and manly self-assertion. Said he had less brains than another boy examined with him when I remarked that his head measurements exceeded that of the other boy. He was used for sodomy by the other boys, and afterwards gried bitterly about it-stating that he had dune such a great sin. His body-type is very interesting (Fig. 14 lift). m.), certainly something of an alongated sunuchoid [Nochwachs]; upper spine beht forwards; hoad rather low between shoulders; feministic facial aldo. and features, well-sounded privical contour makes a attong feminine impression. The hypo-plantic chin, shortenedagg-form fronts wiese of face and physical features generally are those of the leprosome type.

This case also shows the very intimate correspondence physically and psychically of the "intersexual" type with the leptosome type, the sly, self-insecure, submissive attitude these types have in common. We have another example where subjection to homosexual practices of other boys is found together with a pure leptosome physique and a typical leptusone delinquency. general purposes of exposition of the leptosome temperament, this case may accordingly be analysed detail :-

³ Herman, Gigulų Engolytiny Proponsity, p. 1881; Kretychinar, Mail. Psychologia, p. 482; Paniler, James Salenbias, p. 1865; Ebbecke, X Kongres J. Kapli. Psych., Bonn., 1987; Lung, Germbias, p. 118.





Case 7.—Are 16. Foregree and uttering. To wante of a farmer he knew to be addicted to drink, he wrote letters for a native to boy brandy at a bottle store. He received 2s. 8d. three times and 1s, once in prevenues of several such notes. The native was known to the family on the farm for years, and afterwards worked in a consecut in form as driver of a motor lower. The how boarded in the village actual boatel (Std. VII) and only went home during week-ends. The native worried him daily for notes with which to hey brandy; sobbad. homeed, bribed, and afterwards threatened the boy. One day the native told the boy that he would take him to the farm on the ractor lurry he drove, if the boy would write such a note for him. The boy heing very fond of his home-life and the farm, could no longer withstand bribes and threats, and eventually acceded. After some days the native came again and threstened to report the first note if the boy did not write another one for him. This want on for mouths with bearing and bribing on the one side, and threats on the other, until the native was arrested for drunkenness. The boy immediately confessed.

Our observations: A real leptonome physique, delicately boned and very thin muscles, somewhat gulish complexion. short-age-face. Temperamentally the quiet, timid of nature and hooks, with, as Kreeschmer describes, "something pleasantly soil, tender, and lovable, something ulinging about it, and yet there is always a limbt clarise trait of painful strangeness and susceptibility." Friendly, sensitive, submissive in tests; were modest wet bowish attitude; attractive personality. Disagreed feelingly with the other boys in their policy to "thrash out" would-be absconders. because it is " too cruel, they even rour with pain". Is fairly bury, but has no viscomes enemy. Slow to see which boy dirtied the table-cloth and received punishment for it. Unassertive, childlike boy. His letters home are very characteristic : intelligent ideas : does not want mother to inform brother-in-law about his arrest; only wants to see mother for one minute; asks smaller brothers to write to him; very pleased with letters from home; religious; affectionate to brother: " trust in God, the only sweet thought in this lovely life"; pleasant dreams just before awakening in the morning, sees one from home at his bedside, and then when he awakes, " such a depressed, bitter feeling"; interested in little hunthers and sisters; wants to know what people my about him; asks pathetically for

Tests proved this boy's intelligence to be exceptionally good.

good

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Kretschmer says that the hypersesthatic Schizothyme cannot well be studied in personts-" Knors and noets are good enough for that." That is why, in this boy's case, the attractive, refined side of a delinquent temperament is more manifest than in the other cases. This boy not only succumbs to bulber and threats outside the reformatory; in the institution the same methods sometimes seduce him. He is used by the other inmates. occasionally for homosexual purposes. From the details given, several of the average leptosome's delinopency diaposing temberates are evident. His love of home and mother-fixation makes the mative's last bribe a very effective one. The timidity, fear of possible truth in the native's threats, must have been a strong incentive to continue his illicit ectivities. The notes in the name of a heavy drink buyer were well pleaned, as we can expect from the intelligent, introverted, calculative leptosome, His conduct in the reformatory is good, as is the case with most of the timid byperesthetic leptosomes. He maintains intimate relations with his people by correspondence and feels himself an exile. His hrother-iz-law abould not know of his disprace sensitive agoconscionsness.

The weak self-assariion and self-confidence at the root of such susceptibility to the influence and control of others is displayed in various ways. In laptosomes, infantite types and also in weakly meached pylanics. They have much in common with the "Willianhoes" of K. Schneider. They are weaklings. In the reformatory their conduct is usually examplary, but one can hardly rely on their good intentions. The intelligence, with some prenounced exceptions, is rather on the weak side. When the intelligence is very low, this accentuates the weak self-assertion. In such cases more primitive reactions characterise their behaviour. The weakly intelligence together with the placid, affectively large, autistic (i.e.

³ K. Schneider, Dir Psychopathinde Personlichhelm, Leipzig, 1908, p. 73. The sedimic psychopaths of this author are setundly very closely related to our authorite hydrostesis.

defective acciable contact), self-insufficient, accumulousanxious Schizothyme temperament and character in many cases prejudice the correct and accurate independ of such persons in law court procedures. The following case may illustrate this :-

Case 8.-Age 17. Charged with theft of three Merino abeen (total value (3 10s.). Father, previously convicted of stock their, owns stock to the value of 490 and has an income of (1 per month as tenant farmer. On this he has to keen seven children. The futher is of athletic build, and exercises severe discipline on the children. Brother of father (same build) is a real buil-fighter, who once found a man stealing his sheep and tied him to a wagon without clothes for a whole right in mid-winter. The boy is like a long akeleton, upper spine best forward, a feptosome of the asthenic kind with the exception that his face is long and thin instead of short-egg-shaped. He has a weak physique, pale colour, sores on his less and body, desp-set even without lustre. His energy is weak and slow, but fairly permistent. He remained seated with his less cround when I started to take his measurements until I asked him to stand up. In the motion of his long limbs and in speaking, he is very slow. His intelligence is on the borderline of feeblemindedness. His means modifity is so slow (viscous) that, when given a task in the tests, he sits for a long time wishout a sign of intention to start, as If he does not know what to decide. When tasks prove too difficult he displays something of an "aristogratio" sulkiness. On the sports field quies and pracciable : does not partake in sport. The real typical "same" type—a "slow motion" production. At the swimming pond he starts to dress early so as not to be tate for the bell, but dots the dressing in the same slow " aristogratic ", unsociable manner, in a secleded corner of the estimating hall. He has 24 inclination towards girls whatsoever. The latters ha wrote also fit into the "lame" picture with " a sensitive core". He has a weak, large headwriting, hopeless spelling. and incoherent ideas. Writes about sores not yet healed. Longs for home and letters. (Parents never wrote to him.) Father should send a petition to the authorities to reprieve him because he is immunently punished. Pathetic style.

My study of the court procedure sevents the following : Boy worked for a neighbour at a ridiculously low wage. His father ordered him to resign this poet, which he did. The neighbour was very agery about it, and ordered the 84

boy not to disprace the farm with his presence again. Some days after this the boy looked for his father's missing horses on this aeighbour's form, and, as a native boy (12 years) declared in court, drove some of the neighbour's sheep with him. There were no other are witnesses, and the neighbour did not ascertain what honormed to the shaco. but immediately renorted the how. The sheep driven away were less old own specially tended after in the neighbour's vard, because they were 100 weak to so with the flock. All the circumstances convinced me that, if the sheep had been stolen at all the lather had something to do with it because in a previous chappe the father was also implicated (stock theit). When I touched the point in the interview. the cold, "aristogratic," lame, dry picture changed. Tears came to his over abundantly when he declared he was not pullty. His report tallied with the court details in all respects, except, of course, that he did not drive the sheep away. " S. (the neighbour) will get his day. God's justice will know that he changed me only because I would no longer work for him." The wounded sense of ethico-religious honour is a vivid, bitter feeling complex in the lame emotional life. Even while he was emplaining all this, he sat motionion. his lags crossed, the one hanging over the other like a monkey-tope down a tree.

We see in this boy what Kreischmer has described to fittingly. As soon as we come into close personal contact with the Schisoids, who are poor in affective response, "we find very frequently, behind the affectives response," we find very frequently, behind the affectives another the service in the inserence succusary, a tender personality necessary which has withdrawn into itself." In the leptosomes of our material, one did not need to pentirate very far to find the vulnerable sanctuary. But quite a few showed the unexpossive, affectively lame exterior, complicated with the timidity retiring attitude to such an extent that the court might have taken it for criminal indifference or a mild form of solley defiance and obstinacy. This they are not in the ordinary sense of the terms. Kretschmer I describes this "Dried and Emotionally

¹ Physique and Cherucine, p. 153.
² Physique and Cherucine, pp. 167, 188, 188. For very brilliant detailed descriptions of these affectively lame variants we creat refer the reader to the work of Newtonians. This effective lapseaces appears

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Lamed type" as "oppressed into silence". "They are automishingly speechless, almost dimib." "Dry. Constitutionally subaltern." Some of them, he says, are "moss-grown members of the underworld, full of hypochandriacal whimsies". In my material there was one boy who constantly abscunded from an industrial achool, because, as he complained afterwards, the boys teased him. He was extremely day, slow and silent. His negative attitude to our friendly appeals and deliberate iokes at first created the impression that he was sulley and sami-defiant for being subjected to our investigation. But afterwards we became more and more convinced that his reserve, negative attitude, silence, etc., were only due to the timidly-nervous crampedness of his feelings. Il is a deject in sociable harmony with his environment. Especially is cases with slight athletic admixture, these "affectively same" individuals may, of course, show occasional obstinacy or nervous distrust, but, as Kretechmer states, "without their anger having anything brotal, or their obstinacy anything stubborn about them." 1

(d) The proportion, "sensitivity-duliness" in these lablesomes.

The Stabessen's Mr Kretachmer quoted above are important both from a theoretical and peactical point of view. Particularly the smallestations of the "emotional dulines" aspect of the Schizo-temperament are very important. The manifestation of emotional dulines of great importance for the real understanding of the Schizo-temperament, and insensitivity or duliness is also very significant for crimmology. We note that the polarity "sensitivity-duliness" wasally appears in the same individual. All Schizo-cemponalities have both these

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qualities, some are more inclined towards the sensitivity pole, others more inwards the dellaces soic. But, according to Kurtschmer, the emotional duliness takes different forms. We have endeavoured to show that in the authenic, and also in the average leptosome of Kretschmer, the emotional dullares manifestations are qualified by the authoric attitude, or the authoric form of experiencing, of these people. Accordingly, the emotional duliness takes the following founts: lack of warm amotional reverberation, retonance, with the human environment; passive, lame indifference; nervous, timid autism faelf-life, introversion, isolation). But this authenic form of emotional duliness is very different from the passignate insensitivity or insensitive, brutal type, The latter type is active or aggressively insensitive. Le. a athenic, expansive, form of emotional duliness. Kratachmer, himself, mentions that these passionateinsensitive Schizoids are usually post-psychotic forms and, moreover, they have " many connections with certain braintraumatic and epileptic syndromes ".1 Numerous investigations have, as we shall see, indicated that these syndromes have a biological affinity to the athletic and dysplastic constitutions and very little to the authoric or leptosomic constitution. We shall see and that these relations are also supported by Störring and Skawren's theory that real activity (organic dynamic force) depends on sensations of tension. Their investigations in the light of modern theories on sounds bunus (Lewy), make it probable that these sensations derive from well-toned muscles such as those found in the athletic type and its mixtures. With the presence or absence of large, hard muscles with a good tonns, not only the activity varies. but also the aggressiveness, self-confidence, absence of fear. This is very easily proved : active feelings form an interval incredient of the athenic forms of experience.

⁵ Physique and Chanacter, pp. 170, 264.
⁶ Starvan, Factoring, Psychologic, pp. 223, 244.
Starvan, Experimentalle Untersuchungen him den Willen, Arthur, J. G. Ger. Papek, Rd. 56, pp. 95–162. ² P. H. Lawy, Die Lobes was Tomas and for Boungary, Beelin, 1623.

Moreover, the same neuroglandular functions which are causally related with the development of strong muscles and broad shoulders, etc., viz. adrenal cortex, male interstitial glands, prepituitary, etc., have been found also to be causally related to the masculine psychical qualities mentioned. Leptosomes, who as a type have a different neuroglandular constellation, lack this aggressivenes, self-confidence, passion, etc., to a large extent. Their insensitivity is, therefore, much less dangerous, though perhaps reore frequently accompanied by sly and obscurs behaviour. Also, their sculivisty does not easily lead W aggressive retulations, but W further building of stititudes, sensitive sentiments. "Verbalitungen," as they are called by Kretschmer."

In this connection we may mention another leptosome case where the lameness and lack of warm emotional reverberation was very markedly accompanied by the self-insecurity and constitutional subaltern attitude. He could not swire when he came to the reformatory. When the boys discovered his lear of water they decided that drustic exercise in assimmine and divine was the only remedy. This extremely lean, long-timbed juvenile of 15 years, however, but no such a pitiful how! every time they tried to make him swim that the aim was relinquished. He was extremely timid, submissive and credulous. If the other boys jokingly ordered him not to eat carrots while working on the lands, he submitted to the arbitrary order and showed entreme fear when found eating a carrot on the sly. He went to ask for tobacco from the officers for the other bows on their command, even though in knew that tobacco was a strictly inchilden commodity. We see that the emotion of fear, or in the milder characterological form of a timid, self-insecure feeling, is, as Kretschmer states," an almost universal and in pronounced stages a specific characteristic of the Schizoid temperament." 1

Derman, op. cit., pp. 174, 186, Zi1, Zi6, Zi6 Ponta, op. cit., pp. 18, 22, 24, 14, 87.

Med. Psychologie, Leisuig, 1930, p. 190.

Physique and Chemister, 100.

It seems as if the excitability of the asthenic leptosome (due to the electrical conductivity of his nerves) 1 is shown primarily in the easiness of discharges of nervous energy into the fear-mechanisms. These fear mechanisms may be located in the Thalames as Camon a believes, or they may be organic and neuro-glandular changes in the body from where the impulses radiate to the cortex for Thalamus! to be "experienced" as fear.

(e) Coverelly Acts of Delinguescor.

In the cases we have quoted so far, it is very apparent that the leptosome, especially sowards the authenic pole. in his method is far from daring, bold, undaunted. Even many athletics the delinquent acts make the impression of alv. cowardly, calculation, if compared with the love of nervo-racking adventure, undauntedness, and manly frankness of mixtures between athletic and pyknin. We shall see that forethought, carefully worked out achemes

¹ W. Jamech has versied experimentally that the galvanic samulatility of the zeroes of the T-type, especially in compounce cases, in above the average. He has also shown that this it has to a definition. of Ca-ions and an excess of Si-ions in the system. This calicitary of Ca-ions relative to the E-ions corresponds to a hypothesism of the parachystod glands. The increased excessibility of involved all pariparamayyyvon gastus. Are terreserve entressamy on incorrina ann year-pharm annive is not so ship that is could be embed a hard regard, in invertebiese on ascours of the hypersanishinty of their nerved, jetting malls them the IT-(se l'Embodd Hyps. 4 is empertant to anniv, nor, that jetting found a richtively tagb emissiblely send unpublished and propheral servers to be command use only published; no indication of the

Also perspheral servers to the commod or only patterity—as indicators of 131 of Colimeticino between the early pattery between and the 17-pp; Crondichje, p. 78, etc.; Berman, pp. erc., p. 382; Prodic, op. etc., p. 383; Serring and the followers, Stawards, howe made very intendive interpretive shading of "modewaters" as a consponent of facility stable, With regard to 1 years, Stawards, howe made voltage shading stable, and the stable of the stable

a clothical sense.

Capone, Bolly Changes in Pain, Runger, Peer, and Rage, Man York, 1879, p. Me and Boo. The question seems to be mainly: Does the experience of cautious and facings depend on vigural, gandular, and vascimotoric changes which are incorrected [portrailed] by the Thalanas and Corper Stateman? (the where of Jacos, Lange, Storring, Memmans, etc.). Or, does the enginetions of emotions depend only on processes (innervative) in the Thalanna, Corpus stricture, without the rectation of viscent resonants and other charge, which do occur perallel with, but are not the courses of the "experience" of enotions vises of Casson, Shurtugues, etc.)? With also Stituting, Psychologis des Mensch Cajidate, Bittl, g. 53.

and calculativeness are characteristics belonging mainly to the leptocomes and athletics, though it is also found in a less systematic form in the "comfortable enjoyer" variety of the pyknic group. The careful premeditation of the Schizothymes, as we shall see, is connected with the tendency - abstract thinking, to well-planned theoretical systems of the Schizothyme mind generally. We shall see that in the athletic this premeditation is done with calm self-confidence. In the leptosome, however, premeditation is also intimately connected with his natural tendencies to introversion and to his constitutional fearnomeneau, nervous self-insufficiency.1

The leptosome will not usually divub through a flat window before he has ascertained that the flat is nocupied by a woman or an old man, that the owner is not in, or that there is a means III escape if the worst happens. In correspondence with the timudity of the asthenically built leptosoms. I have found in intensive studies of evidence that these types very earely venture to break into a place at night-time, unless they are accompanied by others. The following cases demonstrate this point :-

Case 9.-In a small town four hove broke Into eleven stores and houses to steal adibles, mineral waters, clausettas, money, watches, etc., in a boyish, mischievous fashion, Two were ovimic mix-forms, and two were leptosomes. Both primics were 15 years of age, the one leptosome was 16, the other 37. All the acts were committed in a period of slightly over a month. Of the twelve counts, one pyknic took part in all, the other pylinic in nine. The two leptosomes icined in after the pylonics had started the game. Some of the burglaries were done in the day-time, others at night. The leptosomes were not present in any of the night escapadas.

¹ Numerous experiments by Endo have supported thin view. A difficult task is appearabed with unbusite care and humination, and avery cliffically task is agreembed with unbushe care not lemination, and away stempt to make the partners with mismost practices up- (i.e., p. 47). Institute, the cliffical properties of the partners of the part o. 2281.

Of one operation I obtained a good description in the court proceedings: They stole J25 from a school. The two pylanic chimbed in through a unadow furnise the pane and turned the latch), one opened the door and called one of the laptocome, who were waiting outside the school yard. The laptocome entered, but immediately caree out again, and looked round to see whether ill was safe before re-untering. The leptocome some came out again, and the other two came. They gave the leptosome 10s. (cut of J251).

These burglaries—though asvere from a local coint of view-must be looked upon from a puberty-psychological point of view as more of an adventurous, bovish rame. But the timidity of the leptonome invenile compared with that of the mixed pyknic comes out very clearly. A study of the methods employed to obtain what they want, in almost all of the leptosomes investigated by myself, showed cowardly, timid procedures. In a few cases leptosomes broke into the rooms of their relatives (macles, brothers) when the latter had left the house and property under their supervision. In fact, it is difficult to find in my material instances where forced entrances into places have been made by leptonomes, unless with the help of others or when there was no possibility of being captured III the act. In the inree percentage of cases leptosomes are convicted for speak-thieving or thefts in lonely places :-

Case 10.—Age 27. Stole five forels from his brotherdilaw, and was caught by a coloured man and hald till be brother-in-law came. Pleaded gallay and begged magistrate to send him im the reformatory and not to a prison for four reasons. Vir. :--

- (1) No parents, no home, and no one to look after him.
- (3) He was only 17 years of age, and too young for prison.
 (3) Committed come to get money with which to buy food.
- (5) Committed come to get money with which to buy lood.
 (4) At reformatory he would be able to learn some trade.

No institution offences. But provious conviction for their of bleyele. Could not find work all over Cape Form, so stole bicycle to patal to Simonstown, where he loyed to get work on a fishing bank. He was arresped half-way, and given twelvy cuts with care on here buttonks. Likes bloscopes very much (the boy says), and delikes dully hard work. In physique he is very thin, with very long legs, and in all respects an authorically built leptonum.

A type of crime wery frequently met with in lectosomes is stock-thefts. There are several aspects of stock-thicking (cattle, sheep, donliness, fourls, etc.) which seem to fit in with the leptospore's personality. It is usually done away from town in the lowely fields. The solitude of the fields seems to appeal to the unsociable lover of nature, which the leptosome is par excellence. Stock-thisving in the field, carefully planned as it usually is by the weakly impulsed, reflective leptoscape, does not entail much danger. Especially in South Africa, with its vast areas and untended flocks, which are in many instances not counted dally. such sale opportunities frequently offer themselves. Also, there is no need to accomplish the act in the dead of night. of which the leptosome, as far as my experience ross. much afraid. It I done in day-time, in the fresh freedom of the open. This is another instance, therefore, of the cowardly erimes of the leptosome.

The more intelligent leptonomes are assorptible to a form of crime which also undicates the sneakish, calculative, unaggressive nature of the crimes of this type. I have very frequently found forgery and uttering in leptonomes. In my material some of the other types were also prome to this, e.g. the "comfortable enjoyer" variety of the pyknic group and some of the athletics, but it was far more frequent in leptonomes.

Cate 11.—Age 16. Stoke chaque, forged a signature, and tried to pass it. He expected the sates thing three days later. Buy worked as a page-boy is a large sca-port hotel. Was very desirent to go to sin and see the world. (In our spontaneous drawing experiment, be deew Table Mountain and lighthouse, of:... as seen from the waves—vide Fig. 35). For this purpose, be wanted to work in the hotel, where be could perhaps become attached as a valet to some wealthy person travelling shread. Liked the work at the hotel because it was easy and near. Did short frip on sea, and also sujoyed trip into the country—preferably alone. Does not like a variety of givit. Was gridful to come girl and

would never seduce her to sexual acts. Did not have the heart for that. Is very religious. Often stell small come of money. Could not regist the temptation: spent the money on clother and his trips. Never gave his mother any of the stolen zerney but some of what he earted. Our observations were: Intelligent, next, artistic, friendly, fairly frivolous, and talkative when with the other boys. His letters show a very alooker hand with long up and down loops. Somewhat depressed in his letters. The school teacher reports that he lacks will-power, is very easily led, very surversing, timed and the, and easily hort; inclined to be decreased: very obedient and nest.

We see clearly that the crime of foreery and nitering is in harmony with the whole temperament. It is the timid, quiet, intelligent, calculating fentosome who is afraid. to do things by force. This boy has the love of solitary nature and the quiet of the seas; but he is too timed to traval into the wide world without a wealthy benefactor to safeguard him.

The argument may be brought forward that we dealt with juveniles, but that a similar self-insecure, timid cowardly attitude towards the social environment need not be found in adults. We admit whole-heartedly that it is impossible to transfer our conclusions from a study of juveniles to any of these types to the behaviour of adults. It is quite possible as we shall see, that are makes the pyknic less emotionally impulsive and more premeditative. In the leptosomes an increase ill age will unmistakably increase the self-reliance. Our bio-physiclogical theory is that the normal athletic constitution is that of the average adult male. From this one should conclude that the stale leutesome with encoming age acquires more of the athletic calm self-confidence with occasional fits of aggressive anger. But from an intertypical, comparative point of view the leptostoric will always he far less self-confident and appressive than the athletic, and the pyknic less systematic and reflective than either of these. The following cases of adult criminals investigated and considered as typical by Lenz and Böhmer, will prove that the cowardly, timid, calculative qualities of the leptosome are just as nearled in the adult as we have found them to be in the invenile.

Case 12.-Eurochoid-like length of her, lean built. feministic breadth of hips, as compared with shoulders. Arthenic body-type. At the age of 13, committed to a reformatory for attempted rape of girl of 5; years of age. When 21 years old he entered a farmhouse where only a dest woman was present, strapped this woman on to a hed standing in the bitches, and stole two silver watches and a walking-stick.

Ten days after this deed. In met a solitary woman on a road. He accompanied but for some distance, and then passed har. Twenty manages later, at a turn in the road, ill unexpectedly appeared again, and confronted her with a stick, saying "Your showey or . . " The woman took to flight, crying for help. He pursued her for thirty paces, then suddenly stopped and fied.

This criminal, called "aggressive" by Lone, commits the cowardly acts of the asthenic. Unfortunately this one and another one of Lenz mentioned by us in para, 21, are not ideal leptosomes. Both of them are heavily flavoured with inter-sexual constitutional factors (length of lates, dispresention between midtle of shoulders and wights of hips, etc.). A thord case given by Lenz is complicated by a very weak intelligence. Some of the characteristics of this unintelligent man are pertainly more attributable to the asthenic constitution than to the intelligence defect. His "good nature" is the reason why his wife ignores him, his children disobey him, and follow-workers " push him aside". Cowardiness, timidity and slyness speak in every picture of the asthenic delinnshet.

The following case is given by Böhmer, who believes that the differences between the types are seen more clearly

A. Lega, Grandrins size algorithmicallinologie, p. 76. This is the only good gluonal. "acthoric eximinal" given by Lega. The others are our controllar (reds cases, pages, 24). But we consider that care the site client are distinctly features. The legality of the legality of the properties of the legality features. The legality of the legality features are distinctly features. The legality of the legality features can be also as a superior of the legality of the legality of the legality of the legality features are distinctly features for the legality of the legality features are superior of the legality of the l

in the method in which a criminal performs a crime than in the class of crime committed. For this purpose, he gives a murder-case for each of the three types of Kretschmer.

Case 13.-Murdered a retired gentleman who lived alone, and stole a cashet, containing \$13, hidden in the old man's bed. The murdarer, who was the hashand-to-be of the old man's grand-damphter, did it in this way : At & o'clock might he entered the house, hid himself till the light was extinguished, then he searched for the casteet in the cupboard and bed of the mandered man. At this juncture the old man woke up, and was seized by the throat with the left hand, and a rag inscried into his mouth. This made him unconscious. With a towel, the old man's hands were shackled, and his lass bound together with a woollen shawl. When the artheric depresonne) left the room he first ascertained that the old man was still breathing. The act was civiously performed with the atmost care; no rough traces of the agent remained. When arrested, he repeatedly daried his guit. After much presure, he acknowledged it to his mother, but asserted that he had not intended to idil the old man.

Böhmer, in his comment on this case, emphasizes that the agent acted with great care, that he did not risk his own security, that he shought, calculated (Kombinieren) exceedingly well in the preparation and performance of the act, left no traces behind him, after the act he reassured himself of his own security and in court defended himself well. As is appeared from this typical case, the prepsychotic leptosome could hartly commit a murder.

Thus far we have accentrated the temperamentally asthenic qualities of the lentumme. Our material seems to have indicated that the asychically authenic qualities appear in combination with an asthenic physique (in the sense of Kretschmerl and with the lentosome physique generally, in so for as it is free from ethletic admixture. I fact, there is but little somatical difference between the asthenic extreme of physique and the leptoscene

Professor K. Bukreer, "Uniconschanges wher den Körperbau des Ynstrechers," Monté, saler, f. Krim. Frych. Heidelburg, 1868, p. 203. Bülmer supports om contentions that an injunitive deady of the "court procedure" given authunity valuables.

without athletic administrum. In practice there are flowing transitions, from the extreme asthemic fluoroph the normal leptosome, the athletic leptosome, leptosomic athlete to the pure athlete (vide our Triumgle of Temperaments, para. 58, Fig. 50, 51).

Throughout our exposition we shall notice the previously mentioned increase of sthesic behaviour with an increase of athletic constitutional factors. This difference in the authenic-sthenic proportions as we move from the laptosomic to the athletic type is of great importance for a correct comprehension. If the " sensitive-insensitive " manifestations. Kretachmer calls this the psychaethetic proportion and makes it the key to the Schitz-mind. But "sensitivity" and "insensitivity" appear very differently in authoric and ethenic temperaments. "Sensitivity" in the asthenic person manifests as painful timidity, building of further ego-complexes (Verhaltung). introversion, autistic retirior, self-insufficiency faulines. atc. " Sensitivity" in the athenic cannot appear otherwise than as exclubble aggressiveness, epileptoid crises. dispositions liable to retaliation, quick temperedness, etc. Similarly, " insensitivity " in an authenic framework may appear as lack of emotional response, i.e. duliness, affective lameness, "autistic distance," coolness, inactive coldness, etc., while "insensitivity" in a athenia framework must appear as appressive coldness, brutality or also as calm ago-centric salf-completence, cold salfconfidence. This is the reason why "insensitivity" in the leptosomic and asthenic physique type is relatively harmless. Insensitivity-sensitivity proportions in the athletic group are much more dangerous. There there proportions manifest as forms of expansiveness. In athletics agreesive tensions a provide the psychostoctic proportions with a dangerous dynamic moment. In leptosomes, however, these proportions only lead further

³ Scusstions of framium mus, as the exhant of Soliving has found, of firming dynapsic moment. Them establishes of lemmon develop from tension and norms of machine such as uses found in the achieving near tensions. Storing, Physiologic, yp. 223, 261, etc.; Lewy, Die Lehr 1987 Tories and the Educations.

and further into autism and affective crampedness.1 because they lack the nowers of conduction (Ableitungsfähiekeit), of discharge into skeletal musculature. In the more authenic we find the "sensitive developments" (Kretachmer) while in the more sthenic we find the "expansive developments" provided that both asthenic and otheric experiences are rement in each case in different proportion.3

The other fundamental qualities of leotosomes still to be discussed, such as autism, logical schematicism. sexual peculiarities, etc., are all cansally interrelated also with the asthenic form of experiencing. These are all to a large extent aspects of the same fundamental biological structure. They influence one another mutually in an inextriculty interwoven etiological structure.

16. The Author of Laptonomes

"Autism" was coined by Blevler to express the most characteristic temperamental quality of the Schlzo-group. The autistic attitude is one of the three fundamental solutions of the problem Ego and environment—the other two solutions being the arthenic attitude and the athenic attitude. The autistic solution is primarily the privilege of passive and weakly impulsed Schizoids. Autism is given by Kresschmer as the opposite of extraverted. realism, sociability, and of frankness. In positive terms it is ero-isolation, self-life, howard-directedness, reserve : "the construction of an isolated individual some, an inner reality-foreign, dream-, idea-, or principle-world, an equanimous or sensitive retiring from the mass of fellowbeings, or a cool mixing with these without inner rapport." 5 Autism is a form of splitting; that is why Bleuler could say, "the Schizzid splits too much, the epileptoid too little." 4 The concept of autism has very

¹ Ewald, "Reastitution and Chandeler," in Managembles our Ewald, "Roundstatum and Chamdeler," in Mon-Franchends unp Emplephones Fooeless, 1928, p. 84.
 Kretschuter, Med. Psych, pp. 187, 189, 208.
 Kretschuter, op. cit., pp. 187, 221, otc.
 Quoted by Delinhick.

much in common with the concept "integrationresistance " applied to their T-type by the Jaensch school. In fact, W. Jamach nometimes describes this fundamental quality of the T-type in identical words as Kretschmer does his autism.3 It is against a Schinothyme's or a T-type's intrinsic nature to make friends easily and directly with a new introder into his self-world. They maintain an atmosphere of aristocratic or nervous distance until their feelers have assured them of the congeniality of the newcomes. Kurtuchaner and Isensch mention that this type feels as if " there is a pane of glass between himself and mankind "." Isometh and Kretschmer also agree exactly that the Schizothyme is either unsoclable or eclectically sociable within a small closed circle, or superficially sociable without deep osychic rapport. In the latter instance, the relations are formel. "official." This is particularly found in the coolly active, calculators, hard masters, and the military variants nearer the athletic puls of Schlaothymes." In the leasonomes we seem to find more of the eclectively sociable who may have extremely intimate, even sentimental relations with their select few (compare cases 7, 2), etc.). The autism and intimute selective friendships of the lentosome Schizothyms can again be compared with the early puberty autism and sentimentally intimate friendships described by Bühler and Spranger.* They seem to compensate in such hyper-intimacies for the defective emptional taboort they have with the rest of their social environ-

W. Juanteh. Geomolodico, pp. 126, 145. 144. Occor. ed. 161. p. 184.
 The bents integration-resistance was first enhant by H. Thomas. Vide sites Mochelmann. ed. etc., pp. 48 and 51.
 Phytique end Character. p. 183, and Grandelige, p. 144.

^{*} Physican and Cheracter, p. 216. Exchirances, ep. cs., p. 51. Also our expectations in the sequel supports this statement.

our expeditors in the sequel supports this statement.

'There is the floor obvious consumentures thinkable between the autient of leptacopic Schim's and that of the early substry genetic plate. Ct. On Behler, et al., pp. 5.71, 75. 1" with the intriversion as also found a retiging from the services over the six of the extra with a knowledge of the zero man life, and true which the change is moisety concessed, "and autientical individualities wite," feelings of deep rolling loss and including, the laner suppassion from the convenient "Spranger also spracks of "Astronom Control of the convenient" of this packed (et al., pp. 22, § 63), 43).

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ment (compare cases 7, 23). The exectively sociable Schizothymes described by Eurischner (Hölderline type. mother-fixated, sensitive effectively lame type, serens aristocratic type, nathetic idealist), all belong to the hypersersitive, self-insecure, unamertive group, which we have shown to be primarily leptosomes. In these hypersensitive Schizethymes, the supposable otherved retiring attitude towards all, except their edect few, is -66 Kretschmer indicates -a moult of their nervous sensitivity. their timidity and their fear of the barsh contacts with the real human environment. Teneards the athletic pole when more masculine self-assertion and revengeful compensatory tendencies come into the personality picture. the unsociable retreating attitude may become an angressive anti-social attitude, or more commonly a

musterful, military ascendancy. The unsociable, lonesome, temperamental qualities of the leptosomes are neturally shown in the nature and methods of their delinquency. We saw that they are very food of stock-thieving. One of the reasons for this preference was the loneliness of the fields where the snimals grass. I may I armed that all criminals would prefer lonely places for purposes of escape of detection. This we also found to be a reason why the leptosome preferred stock-thievine-he is physically a coward by nature (afraid of the dark, etc.). But it carmot be coincidence that the two flat experie we found were both pyknics and the main burglers in towns were pylinic or athletic

mixtures or groups led by athletic mixtures. We shall again touch upon this point in later chapters. In previous pages we also saw that leptosomes are very frequently convicted of forgery and uttering. This ill usually done without company. In such forgery crimes of leptonomes, they are able to keep the secret from everyone for months on end. Also, in the direction in which the money thus obtained is spent, or in the need which trompted the acquisition of money there are significant features which indicate the love of unsociable, solitary conditions. In one instance of a leptosome, the money is spent on trips

into the country or on the sea (case III). In another case of an athlete-leptosum mixture the money is spent on a camera, clother and a rifle to bent with, all of which indicate the fordness of solitary hobbies. We shall find the same unsociable tendencies described throughout the following pages. In their sexual relations, the leptosomes either manifest pervertions such as intercourse with infunts (psedophily), with animals (bestiality), and less frequently with others of the same sex thomosexuality), or they are very selective, alealestic and intimate in their relations with sirls. In the average leptosome a tendency to promiseuity, or sociable mixing with girls, is very seldom found. We shall see that these unsociable or eccentric sex qualities very frequently lead to court procedures. either directly or indirectly. As we shall see, many delinquent forms of compensation of re-establishing the status of the ugo springs from the autistic division between the "I" and the "external world" (Ego-isolation), If we compare these aspects of the Schizothyme's delinquency with that of the Cyclothyme, to be discussed. later on, the autistic finward-directedness, self-Efe) tendencies of the Schizothymes are very apparent. In many cases we saw that authenically inclined leptosomes showed an easy susceptibility to the influence of others. Here the association with self-confident companions who dominate or experiend them is not a sociable association so much as a subordination to the others. Such associations are based on self-issecurity or rational calculations much than on a natural love of sociable relations with fellowbeings. We must also realize that we are dealing with uveniles, many of them just above the age of 16 and some with infantilistic characteristics. Young people are much more sociable than the average adults. It has been verified in many ways that adults generally are more introverted or autistic than children and inveniles. 1 So. we should expect to find less ussociable, independent,

¹ Whitegan, J. of Almoyand and Spr. Psych., 1886, p. 307; Pfahler, System, p. 396. In early pubmity there is a very parameter of between the control of the control of

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behaviour in juveniles than in adults. If we refer to investigations on adult criminals as given in Cases m and az, the same softway procedure is striking in leptosomes. Pylenics are fund of "Raneunisang" done in bands, spend their spoils on cabarets, dirinking pacties, women, etc. These are indications of the sociable, frank "live and let live" characteristics of pylenics as compared with lettosomes.

As Kretschmer indicates, the autistic shutting away from their fellow men naturally involves in many of those who are not simply dumb, the building up of their own world of thoughts and aims. Especially in the saifinsufficient hypersensitive personalities a strong antithesis "I" and the "External World" develops. They become very ago-conscious and in every situation the relations between the "reflected self" and the social environment are analysed. "A constant excited self-analysis and comparison," says Eretschmer. The naive self of the infant, which consists mostly of self-assertive feelings, is by this critical self-analysis exchanged for a "knowledge of the sali", semetimes a "knowledge of a present self, aspiring to an ideal self". This ago of the leptonomus in a product of reflection, of introversion, and as such only starts to appear in the easily puberty phase with which we have often previously compared the leptosome. The pylonic self-conscionences, as we shall see later is more

¹ Protence Insmerie, Laur of Scotal Physicians. Microplains that the relieved self is the subject's blan of how his billes-beingt see him, think of him. The subject views himself from the standpoint of his local survivousses.

"Up to the beginnings of principle in child has a naive sell-conscious best consisting anialy of cell fedings. "A healthy while fore not know anything about his eigh, and down under childred shout that top "(Ch. Billihm, et al., before a line supply." These self-consciousness of the child in sell, a willing by the cell "stream in a supply of the child in sell, a willing by the cell "stream in a self-consciousness of the state of the cell "for a self-consciousness of the child in self, a willing by the cell "stream in a product of opening self is considerable and self-consciousness or approach to the naive excluded consciousness of the child is a principle of the state excluded and consciousness of the child is a principle of the state of the child in the self-consciousness of the child is a principle of the state of the child in the self-consciousness of the child is a principle of the state of the child in the self-consciousness of the child is a self-consciousness of the child is a principle of the state of the child in the self-consciousness of the child is a self-

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of a naive self-feeling, not an ego-consciousness. In the Schizothyme the developed ego-consciousness—especially in acts of compensation makes him do things with the special conscious autross of mising the status of the "reflected salt" in the case of the environment. The leptosome nearly always feels himself inferior to others and this inferiority seeks compensation, as Adler has so much accentuated in his works. In the asthenic group the self-insufficiency seems to be rather passive. But the physically well-developed leptosome with more selfamertion, the authenic connciousness, i.e. the selfinsufficiency consciousness acts as a "sting" to the athraic consciousness and we get the "expansive" tendency, the strong compensatory ambition. This mixture between arthenic and stheric consciousness (form of experience) gives the well built or athletic leptosome a marvellous energy and ambition, unique in its perseverence. These analyses indicate the intimate etiological reciprocal connections existing among the various Schizothyme temperamental qualities; the autism, sensitive timidity, are-consciousness, tenecity of airs. We shall see further on that the sexual qualities and the Schizothyme's method of thinking are similarly interrelated with the qualities mentioned above. These considerations, based on results of the Isensch and Krerschmer evpological studies, give us hope that these types are not more systematic classifications but fendamental biotypes

20. Calculationness, Reflectionness of Leptosomes

Ewald emphasizes that Kretschwer in his later works has rightly limited the fundness of electract thinking to the leptosome and asthenias. In our discussions of some of the typological studies of the Jaewsch school, the Groningen school and of Pfishher of Tubingen, we shall again touch on the theoretical implications of the leptosome's fundness of abstract thinking and logical

³ Three mechanisms are admirably analysed by Erctscheer, Med. Psych., pp. 188, 188.

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systems. The athletics are also to some extent inclined to have locical ressure for their behaviour. Especially, mixtures of athletics and leptosomes seem to be cool schemers and persons who rigidly enforce with relentless severity their rational disciplinary systems. In these consequent tenerious riencists the national systematication is applied to active practice. Their military, dominating, active spirit cannot bear to speculate idealistically without any reference to practical action. Metternich, Frederick, William I of Germany (father of Frederick the Great). and even Calvin and Schiller were not only abstract systematizers, they forced their systems into practica.1 This practical, active, disciplinary bent corresponds to athletic admixture in their physiques. Hoffmann mentions that Prederick had a robust natural physique and a remarkable energy. Besides his logical systematicism in practical government, he was characterized by epileptoid passionate fits of anery leading to deeds of violence-all of which modern researches ascribe to athletic constitutional factors. Calvin is also an outstanding historical personality who excelled by long-thought-put thrological systems with an inexprable logic. But his low athletic face shows slight athletic admixture, and the rigour with which he applied his system to social conditions shows that his ideal-world was not fully severed from his mal-world. Schiller is another logical systematizer; but his " tenacity, overwhelming energy and amazing courage " (indications

of the athletic factors are also found in his very long face and tall, upright body), saved him from a splitting between his ideal and real practical world. In Schizothymas

is also a brilliont stampte (Ringel was an athlette).

* Hoffmann has made as intrassive investity-inequival study of the temperature and channels of these Richardinans (Anjawa des Chornkiers, p. 130h.

generally, we meet with logical systematism, detailed 1 Delbrück in a brilliant companition on the character and tempera-1 Delbudch to a brilliand composition on the observed or and temperatured of Spinpelte, where the albheits and explanate of parties types most of Spinpelte, where the albheits and explanate or the spin of th

planning, systematic calculation. As Pfalder 1 has proved. this characteristic is just as fundamental as the typical emotional and volitional characteristics. But from the above examples of athletic leotosomes in history III appears that athletic constitutional factors disnose to a vigorous application of these systems to concrete practice. These athletic varients combine rational systematication with extreme practical energy, a large amount of disciplinary leadership and self-confident assertion. They are described by Kretschmer under "Cold, Masterful Natures", the only "average men " group of Schisothymes with active salf-confidence and arrons practical seclinations. This fact, by the way, is another proof that athletic factors play a relatively small part in Kretschmer's Schizopersonalities.

The logical reflective activity of the more sensitive Hölderlin type or the worldly foorign schamers in the Kantian type are more concerned with idealistic creations wherein these inward-directed temperaments live undisturbed by the barsh contacts with practical reality. These "poor | deeds and rich in thought" types are the objects of Kretschmer's descriptions of the more genial personalities. But also the ordinary mediumminded leptosome found ill the reformatory shows a strong inclination to reflectiveness, premeditation, systematic calculation in detail of his future chances. Van der Horst 2 has found that the Schösethymes generally are inclined to plan their forures systematically and carefully and to live up to their calculations. He found that the Cyclothymes are not inclined this way. "they do not think about the morrow." Pfahler and Euke have shown by experiments that ideas, intentions and images are more perseverative in Schizothymes than in Cyclothymes. This "perseveration" of ideas and intentions (attitudes) leads to a more consequent, reflective, plumed behaviour.

⁵ Pfabler, System des Types-lobes, Lalendg, 1929. We shall discuss the principle of personnentium in a latter chapter.
² Physicse and Chamater, 1925, p. 215.
³ Van der Henri, Zhenrift, J. Manushiga and Psychiatric, Bd. 49, p. 256.

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In the leptospens such careful premeditation and planning can therefore be expected for several reasons; Firstly, the systematic, premeditated, reflective procedure is a general quality of the Schinnthymen. They are more influenced by intentional attitudes, not so much by momentary attitudes and impulses. It is a natural and easy task for them to reflect on the details of their future schemes.1 Secondly, the leptonomes being always. naryously timid and self-insecure are bound to think before they leap. Thirdly, weakly impulsed as they are, they are not inwardly driven into action by a strong momentary amorticual action charge (" noute sthesic crises"). When the aim presents itself to the consciousness of the weakly impulsed persons, there is still sample time to reflect on the agacity of the scheme. Even though the leptosome is "excitable" or "irritable", due to the lime insufficiency in his nerves, this excitability does not seem primarily to lead to nervous discharges into the centres concerned with astrosaive muscular activity (somatic muscle tensions and tonus). On the contrary the excitations are more prone to discharge into autonomic lear mechanisms giving rise to the characterological timidity and "lameness". in some instances, excited talking change of breathing, etc. We have, therefore, strong " intrapsychic activity " in the form of identional protection measures, with weak "ennduction capacity" (overt activity). Also, the

soo, arrive as smaller conclusions.

* This Corresponds zone or lime to what Estable calls strong "interpsychic zone" with usab "conduction engaging" (Alloctrosp-thighed!)—Ewald, Temperament and Chevaline, Bedin, 1984. Also Kertechuse, 1984. Fajolo. p. 198.

As Sobring (Psychologie, p. 38th and Shawran (respectively Univ. of Presories) have shown that attention processes presuppose a Univ. of Prescrish have above that attention processor presponses to volylingual act least 'intensity' or or or equivalent of an act of volkingt (an insules attitude). All filiability processes depend on such a preceded 'intensition' or a preceded websitewed set of attention, which during the actest thinking process semants in the intensity of consciousness (critical attitude, "Exercitivag," track-ownex-sols, liak-duringing determining tending or driving limit of the constraints of chromining tendings of Arth). We shall soo hote on that in the Schlas-thyse "intensitions" or volkinsum attitudes are nature permittent and have a stronger influence on the contents of consciousness than in the cyclothymes. The cyclothyme's thinking is more influenced by feeling-states, by perceptual problems (organizes integration with the surviver-ment) and by open-suckery attitudes. The prosuch stated, as we shall see, acrives at similar conclusions.

sensitivity of the leptonome (due to the susceptibility of his autistically commiex one- and sex-centimental does not lead to affective expression or discharges, but, as Kretschmer indicates in the hypersenthetics, to concealed summations of feebook and to conscious intensification of the sensitive constructions 1. On account of their lack of active self-confidence and their tendency (III reflectiveness to the last detail, especially intelligent lentosomes may be extremely indecisive, problematical natures. They are so muny shades of possible chances and dengers (especially the latter) in their reflections on the nature that they are unable to determine which course to take, and welcome a heteronomic decision for them. From the foregoing discussions we sho see once more the inextricable interrelatedness of such characteristics as careful reflectiveness. authenic experiencing and autism (secludedness, self-life, inward-directedness).

Reflectiveness and scheming are generally taken to increase with age. On the other hand, increase of selfconfidence with age may counteract the timid calculativeness of the more vouthful. In our juvenile material we have constantly found the peryous permeditation and careful planning in the leptonomes, colder and calmer (self-confidence) calculativeness in the athletica but here it was sometimes frustrated by passionate anger or unscruppious salf-combdence. In the delinquency of many cyclothymes of our material we have found very little system or premeditation. Unreflective, impulsive and adequate to the momentury situation are their deeds. Naive, vouthful freshness as that of a tropical shower, characterizes the delinquent acts of the majority of our tyknics, most of whom, however, have slight athletic

¹ On etc., p. 1996. It think to be softenable to keep "certibability" and considerable to keep "certibability and considerable and conclusionly addressing addressing and conclusionly adversariate and personal property on the conductifulity of the nerves and the succeptibility of the representations and few superiodistics. Sensitivity seems to be mainly done to succeptible ages, and nex-estimates (considerable property of the control o Insufficiency feelings. With the localiticatory faciling there must be, as Kretschmer indicates, a strong "sting" in the form of self-conscious ambition, etc.

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or infantilistic admixture. One group of cyclothymes showed some premediation—the "constantible mijoyers". But even here, where none would expect careful searching for "the way of least remistance", the premoditated schemes were mostly of a radinessiary sentence, as we shall see in the respective chapters.

Iff the cases given on previous pages, it is already obvious how carefully planned the criminal behaviour of the leptosomes is Steining from a sative but, because white men would not be casily asspected, is an instance. In such a doed, however, the conwardly timid aspect is most ritking. The calculations of the more asthenic leptosomes are all more or has prompted by this constitutional fustromeness. A better instance of calculation is that of Case 7, where the notes for driak were written in the name of an habitual dyinher. If Case 10 the logical scheming is apparent from the tabulated reasons given why his should be sent to a reformatory rather than to a prison. In Cases 21 and 25 to be described, this careful premeditation is very promosecad.

Case 14.—Age 13. Their of \$70 and motor-car. Nearly a month before the act he came with a schuma to two of his friends. (One of them is described in Case 48.) At the end of the month he would cash his amployer's chaque for salaries in the usual way, then take the money and hire a car for a day. The three of them could then drive to Port Elizabeth, where he could find work in a parage the disliked the type of work he was engaged in at the time). Christmas was near, and he suggested that the other two would thus have the opportunity of a loy-trip. Naturally, they were extremely pleased with the scheme. Everything happened as arranged. The schemer even remembered to bring false number-plates for the car, which were duly affixed. (Compare this with the pylories of the trip described under Case 44, where the number-plates were forgotten.) In the court this boy pleaded for a suspended sentence and offered to repay the amount to his firm if they reinstated him in his work. Unfurtuentally the other two afterwards confessed spontaneously about another car stulen by them in Port Elizabeth when the first one ran dry. Such silly confessions broke the bund of friendship between these two and the first party. In the priormatory our hero

instantly started to plus an earths. The project feeled out. and the three were secretly "threshed out". First to propose the scheme, he was the last to jump in for his share of the thrashing, because he hoped to the last that the officers might interiers; and also, his leptosomic timidity may have played a rôle. After this he wrote to his brother that they should get him into a labour colony where he could earn money while in custody. Physically he is a leptosome ; though the length of the face, amb nose, broad shoulders (38 cms.), fair traparitis, and medium muscularity generally shows that he is more on the athletic than on the asthesic side of the leptosome group. The somewhat shallow shining even also indicates pytrac influence.

It is interesting to note that although this boy showed great resourcefulness and initiative in his well-thoughtout schemes, he lacked the courage to carry them out singly. He always sought the physical and moral support of the other two in spite of the fact that in the long run they generally proved to be shackles. This is a happy confirmation of our contention that the leptosome always lacks real manly active self-confidence. In the case of Professor Bithmer four Case 13), the excellent forethought. as we have already indicated, is also prompted by timidity and anxiety is safegueed himself.

In view of these considerations it should be expected. that leptosomes must be very little inclined towards such a dangerous and in the long run smooting concern as crime. This would then apparently be in flagrant contradiction with our results because we found 42 leptonomes and leptosomic mintures in a material of 177 javeniles, Le. 43.7 per cent. Compare this with the athletics' 25 per cent, the dyspiastics' 23-2 per cent, and the pyknics' 22 per cent. They are, therefore, apparently as aumerously represented as any other type. I tay apparently, because the following considerations will reverse the picture. Many of our lentosomes will probably not risk another conviction, i.e. they are first offenders who have in their unpractical lameness not realized the seriousness the results. Moreover, leptosomes are probably-for the same reason more easily captured than the more

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dexterous types. The main reasons for such a high percentage of leptosomic jevenile offenders are, however, the following:

(a) It is in this critical period of industrial adaptation. that the deficient physical powers of the leptosome tempt him to find another form of income. (b) Leptosomes. more than any other types, are suscentible to disturbing sexual perversions, (a) The susceptibility to influence also counts strongly against leptosomes.

Other authors agree with us that leptosomes are generally less brutal, dangerous, and also has inclined to serious racidivism than athletics 1

27. Sexual Characteristics

(a) General.

This side of the leutosomic constitution is of paramount importance. We have on previous passes repeatedly compared the leptocome with the "negation-period" of sarly puberty, when the normal adult sexual factors begin to function—the transitional period from infantile adult sex-life. We have also sporadically touched on physical and mental similarities between elemented sunuchoids and feministic persons on the one hand and typical leptosomes on the other.

In all his works,2 Kretschmer stresses very strongly the atiological importance of the sexual glands for the disease of the leptosomes, vis. Schizophrenia. Ewald also admits the frequent sexual conflicts and anomalies Bi lentocomes. and mentions that connects show anxiom prudiabness and a tendency to live in their own plantagies. (Schizothyma

palantes, p. 50.

* Ewalt, Kamitodian and Chember, p. 81.

¹ Böhmar, ej. sis. p. 200. Thin is also in agreement with the fact that the physicism and asplessic hallings depunds on endocrine defrincion. Perfix shows repeatedly that this type is a constitution of the Status-Perits notwer reperatory: Instrument pages are consistent or the extensive thyracco-lympaticum with the Coolous deliciouscy of a lympa-parathyrida contribution (c. Ferifix, Biogistimum; in dia Elizab for Ironero Schreben, Berlin; 1923, p. 246, e. 1924).

1 Kretachume; Physique and Characium; 1825, pp. 30, 91, 248, 153, 144, 163, 142, 169, 142; pp. 304. Psych, pp. 243, 169; Storch, Zwintelshaup-

MENTAL SIDE OF THE SCHIZOLTYPE

qualities). Leax 2 gives some extreme instances of priminal homosexuality and sexual infantilisms connected with leptosomic constitutions. Weatherg a indicates that the insufficiency feelings so missessel in Schiroid depressions are frequently sexually coloured. Hoffmann, in several of his profound psycho-biological unalyses of Schizothymes, found such sexual anomalies at the root of their personality developments. Numerous descriptions by Feritz and Bermen indicate that weakly developed masculing sex glands, peruthyroid deficiency, and domination I the constitution by the Thymus gland, give the typical leptosomic and authenic body and temperament. Berman, as we shall more fully discuss in the chapter on the blookvalological bases of these types, indicates the relationship between hypo-sexuality and lime-metabolism which is so perrowly connected with tetany and Schizophrunis. In the brilliant monograph of Kroniski, one also finds many infantile dysplastic types and a few leptosomes with psycho-sexual infantilisms and homosexuality, etc. From the physical descriptions given by Kronfald of sexually infamule persons, it appears that none. or very few, could be classed under the athletic or ovimic types III Kretschmer. Many of the single physical characteristics correspond to that of the authoric Jeptesoms: Weak beard and body bair, slender build, hin-shoulder proportion, weak muscles, increased reflex excitability, etc. Many of the psychical characteristics of Kronfeld's psycho-sexually infantile and home-sexual cases also show temarkable correspondence to Schizold characteristics as described by Kretschmer. Kronfeld even states that psycho-sexual infantilism, homo-sexuality and Schizoid have to a great extent common constitutionalbiological bases.4

Lena, Grandria, p. 202.
Western, Ziedrigh, J. Neur. v. Peynk, Ed. 212, p. 548.
* Aplyon at Chrestiers, pp. 106, 154.
* Derman, Giesel Regulating Prossending, pp. 200, 207, 200; Parits, Invested Schricks, pp. 106, 132, 254, 402.
* Exmedicit, Psychonomium Infontitions., Lafgain, 122.
* Exmedicit, Psychonomium Infontitions.
* Exmedicit, cp. 406, pp. 37, 65.
* Wind also Parits, Junear Salvation.

pp. 70, 348.

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In a study of the account tile for leptocomes particularly). one should take some of the genetic aspects of the sex impulse into primary consideration. Before unberty the parents especially the number have intimate feeling connectima with the child. Puberty makes an end to this and brings the beginnings of adult sexual qualities into the picture. These real sexual impulses appear on two planes, the psychical and physical; as evoticism in a tendency to ideal, sentimental, psychical emputhy and identification with members of the opposite sex : as physical sexuality in a desire for or indulcence in, physical intercourse of some form. The physical and psychical sides of the econel impulse are esually kept separated by the nubertial juvenile and only gradually fuse to one impulse after puberty. At the outset of puberty the sex-impulse may be very uncertain and indefinite in aim." sometimes diverging from the natural aim. e.g. the impulse may be towards persons of the same sex or may be towards the own body, or the impulse may, on the physical side. I hally satisfied by masturbation, exhibition. fetiahism, etc. In normal personalities, the heterosexual aim of the impulse becomes more and more definite as the individual matures.

(b) Weakness of Sexual Impulse.

What sexual paruliarities (or anomalius) characterise the leptosome temperament? First, we have found a weak impulse in a number of the leptosomes if our material. Such persons do not experience a strong unge to sexual or erotic relations with others. Case 8 is a typical example. The boy never had any relations with girls and does not feel the necessity of starriage. Eronfeld gives another example ill an asthemic leptosome, where the weakness of the impulse and also the infantile elements are clearly shown:—

* Krosteld, Revisebner, Spragge, etc. Spragge definitely maintains that a type of homosecutity is normal in early publicly.

¹ Krenfeld, ejs. cir., p. 22. Kuntuckner, Mail. Psych., pp. 124, 127.
² Mail. Psych., p. 120. Also Spranger combonists very strongly talk pubertial cleft between what is terms "embinism." and "wastlifty" (Psych. doc Jagradelers).

Case 15.—Age 28 years. Never had accusal intercourse or erections, never maximizated or felt may impulse towards a sexual object. Beychamulytic insufacent without result. Strong hereditary twint. Sexual organs normally built. Puberty started al proper time, but it was without any accusal intipulse or sexual activity. Since puberty, necturnal politions occurred every eight weeks, shouly accompanily by a vague drasm about children's hands. A child's hand generally made a definite impuression without evolving active impulses. however. Sometically a pronounced

habitus asthenicus of Stiffer. Psychically very dependent,

pliable, without initiative etc.

Such extreme cases are naturally very uncommon and on the sematic side are usually characterized by infentile stismata. Usually they are not found in the reformatory for sexual delinquency, but, as we have previously shown. because they are easily influenced by a wicked environment. and lack the necessary active assertion to adapt themselves to industrial requirements. In leprosomes with a seximpulse not so extremely weak, it & difficult to determine whether the weak beterosexual manifestations are at all primarily due to the weakness of the impulse. We know that inhibitions and other mechanisms such as auto-eroticism, fetishism, mother-fixation, erotic aublimation, etc., may prevent the netural overt manifestation of the impulse.1 One of the cases described by us (Case 6). manifests very little sexual inclinations towards girls. But he is extremely attached to his mother and at the same time, very timid generally. The impulse, in spits of a normal intensity, does not manifest in a normal beterosexual way. An extravagant tenderness and submissiveness towards the mother when normal juveniles have launched into full independent life, and the persistence of prudish ignorance about sexual matters, often found in these Schizothymes, indicate their anomalous sexdevelopment. The sex-impulse may be aresent from very early times, and may have an anomalmately normal intensity, but it does not develop along normal lines.

¹ Physique and Cherocter, p. 90.

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(c) Pulertial and Infantile Factors in the Leptonome's Sarvat Impulse.

We shall certainly be nemer the truth if we state that the lextonome's sexual impulse in some percects retains features of an earlier genetic place. Mother-fixation. as we have outlined it above, results when feeling-attitudes. normal in pre-subertial development, are retained in the post-pobertial sex life. Many exhibitionisms, fetishisms, pardophily, etc., are, according to Krunield, also due to the incorporation of infantilistic components in postnubertial sex-life. Anto-croticism and homesexuality also neve affinities with the early puberty phase, when sexual object choice is still indefinite ("playing") and persons belonging to the same sex form intimate crotic relationships.1 It is also obvious that many of these abnormalities in the sexual direction pre-suppose a strong senaration between the psychical and the physical aspects of sex-object choice. Mother-fixation is only possible on a psychical (erotic) basis with rigid exchasion of the physical (sexual) side of the impulse. Sodomy, masturbstion and psedophily, on the other hand, can only be practised on a physical basis with exclusion of the psychical aspect of the impulse. Now, we know that a strong separation between the psychical (erotic) and physical (segual) components of the sex-impulse is a characteristic feature of the early-pubersial phase of sexual development. It is interesting to note further that the manifestations of erutician as described by Spranger, who has made a special study of this component of the sexual impulse, correspond to some at the universal characteristics of Schizothymes. These are some of his descriptions; Erotic relationships are satisfied with admiration from a distance. "The desire to physical contact, if it appears, is suppressed releatlessly." It is a mixture of earthly and religious love as revealed in Dunte's "Vita Nuova." to Beatrice. "Inner shuddering, deep slayness, thatne on

Syrmapur, ep. cit., pp. 30, 123; Excelibit, Psycho-conellies Inforthisma, pp. 3, 22, 26, 42.

account of own insufficiency characterize the gros." "Autoeroticism is quite normal for this period." Attraction to members of the same sex on an erotic (idealistic) basis is just as frequent as beterosexual attraction. On the other hand, he believes that during ouberty perversions on the physical plane of sex-life are frequent, and-during this period-cannot anconditionally he looked upon as abnormalities. The purely physical manifestations, especially in these perverse forms, are experienced by the early pubert and by many leptosomes with shameful surprise ("amazement and aversion," save Spranger). We can very well understand the main principles of the Schlzothyme's sexual development from these considerations. The susceptibility of the sexual impulse on the physical place to perversions and realisations in a state of rigid isolation from the psychical supplementations gives rise to a strong sense of shameful moral Insufficiency. On the other hand, the isolated proticism leads to an idealistic sensimental conslobulation of the " higher elements " of sex, religion and art-so frequently found in the Schizoid temperament. Kretschmer describes the conditions plastically in this manner: "Here stand I, my othical personality, and over there the sexual impulse as something hostile, as a continually disturbing foreign body." The development of such traits as prudery, thuid scrupulousness, insufficiency feelings, and also more active convensations, such as moral riencourness, religious functicism, may be largely traced to these antinomies in the form of a disusion between physical suzuality and eroticism. It is, therefore, apparent that in the leptosome's pex-life infantifistic components are etiologically very significant. As far as we can see, all the sexual conflicts and anomalies of the leptonomes can be reduced to infantilisms in the sense of Krunfeld : the persistence in post-pubertial sea-life of partial components found normally and characteristically in patiential, early pubertial and pre-pubertial developmental phases. Even if these

Spranger, Psychologie der Jaquestellur, 1920, pp. 110, 121, 14c.

Mai. Psych., p. 140; Physique and Chamater, p. 81.

infantilisms are afterwards overcome with advance in maturation the effects on the temperament of their long pensistence seem to be more permanent.

Timidity of Leptonomes in Sentual Life.

We have made special attempts in the interviews and otherwise to ascertain how the reformatory boys behaved sexually towards their environment in pre-reformatory days. The general impression constantly created was that letztosomes are more sensitive, timid and immature at this are than the other types. Only a few of them were entirely weakly impoled sexually. Many had sirk whom they laved and idealized, but year few had had frequent physical intercourse with their sex-objects. Many of the athletics and well-built pyknics, on the other hand, ware very well acquainted with sexual matters, contraception methods, and were promiscuously inclined, as we shall see in the respective chapters. The leptosomes, with some exceptions, "have not had the heart" to attempt sexual intercourse, unless after a long and intimate acquaintance. The physical relations may sometimes be very strongly desired, but the inhibitions usually hold the upper hand. Case II described above is a typical example. This is in accordance with the fact that the ideal erotic objects, in these cases mostly girls, are not at the same time the only physical sex-phiects. The physical sex-intrulse is frequently satisfied additionally by masturbation or in a few cases by perverse practices with smaller children (paedophily), animals (sodomy or bestiality), etc. While the physical side of the sex-impulse detached from the psychic (erotic, idealistic) side finds satisfaction along these pervene lines, the crotic side is expressed one-sidedly in the other extremes. The objects of crotic love are idelized and the sense of self-insufficiency shyness with regard to the exotic objects may be very strong. Eretic relations detached from physical concomitants II the sex-impulse sometimes lead, as we shall see, to peculiar active submissiveness and other forms of similar concentrations.

From these discussion and subscupent analyses of sexual delinopents in the lentomme type. It is evident that there are intimute inter-relations among the various. aspects of the lentosomic personality; the asthenic attitude (self-insecure, timid, inaggressive), the autism fahv. unsociable, retiring self-life, introverted) and the sexual qualities II the average leptoscope. We may, perhaps, so even further and indicate an intimate relation between these qualities and the leptosome's thin-fibred hair, Iran body, receding thin, and thin muscles.

(a) Labinsonic Sexual Deliterants.

There were not many sexual definquents in our leptosome material, and some of these sexually delinquent leptospmes showed obvious dysplastic features. Also, Kronield stresses the responderance of dysolastics in accust delinquents. The leptosome's sexual absormalities are rarely so pronounced that his inhibitions are not able to conceal there. Especially in South Africa, where there are fewer possibilities of detection by educational and psychiatrical activities, this seems to be the case. Very few of them actually reach so far as the law court.

We may begin with a few instances of perverse, lensily numberable forms of physical sexual satisfaction, and then ness on to some cases where the erotic, mystical idealistic side of the leptosome's sex-impulse also have led to clashes with social order. Of perverse punishable physical sexual manifestations, the most frequent are relations with minor children.

Case 16.-Age 18. Dysplastic leptosome with nome athletic admixture. Repeatedly rubbed the genital organ of his stepsister aged 31 years with his own organ. Seminal discharge. Then one day in buthroom when his brother of 7 lay down to swim in the bath, this boy got on to him and attempted sexual intercourse with him per anum. Another successful attempt in the same summer was made nine months later. After this the boy made another connection with the little sister, actually presenting the girl's vagina partially. His mather tried to get him off this pervention had without result

The foregoing is not an ideal tweical case at all. Somatically, the boy is well-built. The muncles of his less are even strong. His less are not loss compared with his trunk. But he has fairly marrow simulders and relatively broad hips, a sheet egg-shape-front face, similar to the leptosome constitution. His more strongly muscled body. as we shall see in later chanters, is probably responsible for his fairly aggressive sexual policy. We have not found a single rare lentosomo who made attempts especially not in sexual matters—by innce, or without considerable care. The delicately measured movements which were experimentally demonstrated in leptosomes by Enka are only the manifestation in the motorical field of the constitutional carefulness, timidity, retiring selfinsufficiency of the leptosome. If the case (Case No. 27) described below, the constitution is more purely leptosomic and the way in which sexual relations with a minor girl were practised also gives a better example of the leptosome's. temperament. A case III psedophily in a leptosome described by Lanz ' is also in conformity with the opinion just expressed. The man, stimulated to the act by contact with his two deughters of a and II years respectively who slept in the same hed with him, rubbed his organ against these children. He distinctly declared that neither was force need nor cruelty shown. In fact, as far as we could ascernain from our own material or from the literature on the subject, pure leptosomes are much more assesstible to manturbation which they nervously conceal from the knowledge of all others than to perverse practices involving partners.* In some cases of homosexuality, however, recourse had to be taken to partners. Case No. 16 given above is the only one of our material who was charged for it. Accordingly we are not in a position to indee about this abnormality. Lens !

A. Leng, ed. cit., p. 15h. Met. Psych., p. 151.

² Lens, 90, cir., p. 133.
31c. Britmap mantisum that Wail Investigated 500 homosometh and faund 70 per cent to be of a tell issue bella which be termed actions. In Manuackey (1930), p. 20.
Vide wife Mr. P. 10. p. 182.

gives a good instance of homogenality in an authoric. but this case had extreme feministic sometic characteristics. It should also be mentioned that on force was employed. by that individual who was a twoical weakly impulsed. unagressive loafer, a contartily calculator and a heggar. It is also significant to note that the extreme homosexuality of the case given by Leng was only discovered while in prison—so carefully did be consent it, and so unobtrusively did he practise it in free life. As far as homosexuality is concerned, therefore, our tentative conclusions are the following: If not prompted by strong inter-sexual or feministic constitutional strain, one may expect leptosomes to be averse to physical sexual practices involving other human-beings even if a strong desire thereto is present. When leptusomes give way to perverse practices involving other persons we usually find the same careful unaggressiveness which characterized them in other delinquent directions. The following case of paedophily of a relatively pure leptosome, admirably illustrates the latter statement :-

Case 17.-Age 19. Charged for incest with a half-sister of 13 years. He asked this half-easter to allow him to insert his panis between her legs for payment. He did not force her, neither did he actually enter the varine. Medical report states, though, that exterior of girl's organs rubbed by male organ. Seminal ejections took place. He did it three times, paid the girl 3s, the first time, 3s, the second time, and gave her sweets the third time. It was done in the lavatory. He directly admitted the act when charged. Girl admits that he did not force or hurt her. Boy states definitely that he did not intend real sexual intercourse, and did not genetrate the ragion.

The boy is a typical, mediumly-built isptosome. Good intalligence. Excellent progress in the corpenters' shop. Does something in light sourt. In all respects his behaviour is exemplary. Shy and blushes very quickly. Quiet and reserved. Very sensitive. Preferred not to speak to me about this charge. Generous and kind-hearted. Seems to be compensating in various ways for his sexually coloured sense of insufficiency. In his workshop he drew my attention especially to a well-famished-off dask which he had made. He keeps intimate relations with his hours by mates of

letters. The following notices were standards on one of his numerous letters: intelligent sequence, infilmate and attractive letter to brother; workshop instructor who is very kind to him will find work for him to be release, he writes; pentleat for paining his late father by his misdoed; were haveher against had company, and advanates safigian. Large handwriting, histly regulate.

It is evident that intimate acquaintance proceded the saxual relations, that mutual agreement existed, and that it was no incest, but only a preverse way of satisfaction on a par with measurbation. We may also, on passens, note how compensation tendencies frequently follow in the walks of these pervens several spectices.

Leptonomes, as mentioned above, will me a regult of their autism be more inclined to setual perversions which they can anxiously conceal from the knowledge of their fellow-beings. Bestiality (intercourse with animals), a parallel to the already discussed stock-theft, in something of this nature. Two of our beytosomen (though not pure) attempted this perverse practice:

Case 18.—Age 16] years. Charged for bestiality. When alons in the field, he uncled hissaell and in stark maked condition he chased a cow issue a narrow river-bad where he tied her horns with a mostey-rope. From the high ground walls which hammed is the animal he eried to have carnal connection with the animals. On several previous normalous he was punished for cruelly to submals, when matricals were found driven into narrow phases from where they could not escape. It is sutremely likely that he practiced saxual portersions on these samuals as well.

Physically a dysphasis legitonome, wedtom height, very lean, and with something of on angular profile. Very lean, and with something to un angular profile. Very conscientions and eareful in his work. Shy, timid, sobordinate, and conduct in the reformative exemplary. He several good conduct handges. Very quist and mostro. Foud of drawing. In spoutiamous charsing he made a very fine "quiet life" about with earemen meetion. Is an

illegitimate child with hereditary tains.

In this case, even more than in the previous one, it is evident that the dis-union between the psychical (idealistic, erotic) side and the physical sexual side of the impulse -a normal phenomenon in early puberty-persists far Physically the impulse is satisfied in persents forms while the erotic component of the impulse reacts to this by excessive shyness, a strong sense of self-insufficiency and brave attempts at compensation either by idealistic relationships or by excellence in work, ext or science. Masturbation is a similar phenomenon to the other physical may perversions and perhans most common in lentosomes. even beyond the puberty age.1 As Kretschmer and others indicate, this secret practice frequently is the origin of the fundamental sensitivity of the hyperestbetic Schlagtheme and the pathological condition of sensitive paranola. Because of its secrecy and also because it is not a punishable perversion we could naturally not control masturbation practices adequately. Kretschmer mentions its frequency in Schisothymes Also Hoffmann has analysed a case which is as typical that we must give some of the main features here .-

Casa 13.-Age 18. Extreme leptosome. From childhood. fearsome, sall-insecure, pedamically scrupulous—a real "mother's boy", and now still assached to mother. Sometimes prayed "Our Father" seventy times in order to influence face favourably. Ambitious, wanted to be recognized. Thought very hard how he could distinguish himself. All these schemes were frustrated, however, by ide24 of possible obstacles. Self-insufficiency and sense of waskness developed. He paintakingly studied forms of mintiery in front of a mirror, by which he could impose upon others. Sexual hie developed very early. Erections at the age of 5 years. Sexual phantames of binnelf standing naked and other boys tooching his body. Shortly after this he took to masturbation, supplemented by these phantasies. Also phantasies of girls touching his nade body. From early times he had a strong administration for his own naked body. He would pose before a mirror and admire his own form, especially his genital organs. Only lately did female bodies

Physique and Character, p. 81; Mad. Psychologia, p. 131. Maxturbation is taken to be a necessi process to pulsarty (Exceedimer, Spraggs). Med. Psych., p. 180. Aufban der Cherabiers, p. 150.

begin to attract him, but he has never approached an object of love. He fell in love easily, but always at a distance. Shyness and baskinbers inhibited all overt manifestations. Saypers and quantizations make him attempt to suppress the masturbation assertines, which is then experienced as beauty and horridying. He even wished to acquire the get of hypmetizing, to be able to achieve more power over girls,

This case illustrates the following compowents frequently met with in the leptesome's sexual Me : auto-emission and perverse physical satisfaction of the impulse by masturbation: timidity and shyness in the approach of the haterosexual object; disenson between the erotic and physical sides of the sexual impulse. The autoemtleism is very interesting because this is probably connected with the Schizotherne's sutiam (inward-directedness, salf-life), and the developed ero-conscioumess of the leptosome. Part of his "reflected self" unmistakably consists of images of the own body. The auto-eroticism is also very significant because it is very frequent in puberty, as Spranger emphasizes, and therefore is another pubertial vertige II the lepronomic temperament. This tentative observation should be further investigated and. if possibly confirmed, traced genetically.

It is obvious from this case that the sexual impulse may awake exceedingly early in the leptosomes, but It remains in the pubertial stage of development for a considerable period. In this form it can hardly be discovered directly by the observer because of the secrety and unnaturalness of the relations both on the obvaical and eretic idealistic planes of manifestation. On the physical side masterbation up to and sometimes even beyond the time of marriage, or even only phantasies, may satisfy the impulse. On the psychical side timid, idealistic and sentimental relationships without the object's knowledge about it frequently characterise leptocomes.

(f) Erotic Delinements.

The erotic (idealistic) side of the leutonome's nex-impulse is usually bound up with ethical, religious and artistic ideas, and as such it makes for one-sided idealism in harsh contrast with the persons unwited manifestations. But even the idealism in the leptonome's sex-life sometimes leads to peculiar love-murders. It is a kind of flight Into death with the love-object.1 We know that snicide is very frequent during publishy, especially in the early period of "sentinental yearning", during the "negation period ". The inveniles are disappointed with themselves and their social environment, lack the practical "affirmative "1 attitude of late puberty and hanker idealistically and sentimentally for a better world. The average lentosome, as we saw, usually setains some of the effects of this early puberty supersemitivity and superideallam in his temperament. When, therefore, some of the leptosomes meet with disappointments in sexual matters, they may in extreme cases commit suicide and in passionate idealism seek to retrieve in death what they have lost on serth. In our own material we unly have one case and even this one (Cose 20) is not a typical one, being probably complicated with epileptoid impulses. But for purposes of theoretical exposition we may not leave this sapect untouched for three reasons: firstly, it indicates the similarity between pubertial esicides and those of the laptosome: secondly, the twoical confusion of erotic and mystical ideas by the leptosome is illustrated; and, thirdly, It indicates the not very distant connections between the depressive pole of the cyclothyme temperamental range and the hypersensitive asthesic pole of the Schizothyme temperament.

¹ C. M. Kyrtch, Emitter für Gefüngefaltende, 28t. 48, 2830, 12 in interpriting in noire their fileDoughl interpriting in noire their fileDoughl interprite the related by high percentage of satisfies in North committee as a unique intuite behavesterist, for brings is fost reflexion with the Movement and considerability of the North. Was McDoughl, Nothing Wifers and Northman Decay, London, 1921. What is more interpreting to that diverge is also in proportion to indictio, so that McDaughit even magnets broading over matrimonial wroups on a possible capturation in 110s.

**Ch. Editor, De. Calculate in page 110s.

Case 20. Are 16. Tall, slender leutosome, with some athletic mixture. Lived with a farmer in Rhodesia, isolated from white people. Late one afternoon he met a native woman in the field. He addressed this woman in the Swahili language, asking her for carnal intercourse. She refused, whereupon he drew a knile with which he stabled her. saving, "If you don't let me, we shall die torether." The native worstan escaped, however, and the boy returned in a nervous condition to the farmstead. In the court the boy decided by pleaded "not guilty", and maintained that he tried to defend the native wounter against a native assaulatet. Previous conviction was theft of money from boys in hastel. The boy has a peculiar tendency to manifest an exemplary conduct for more than a year and then suddenly on a slight urprocation to outrage all good expectations. He calls in a " sudden impulse" himself. We are inclined to believe something of an epiloptoid basis. In the reformatory he showed a calm, submissive and steady good-nature and much conscientiousness | his work. After about two years he once felt insulted because an officer reprimended him for drinking some of the milk that be drew from the powe. When the officer came on dury again the boy absconded, broke into the stores, armed himself and committed several serious shoo-breaking before arrested.

From the words to the native woman "we shall die together", we see something of the mystical mixing-up of the sexual impulse in some of the Schizoidt. Our material was too young to manifest many cases ill religious auxual conglobulation in the sense that persons attempt to attain their ends in death. Weissenrieder gives a brilliant example of such a case. The resin features of the case near be summerized that:—

Cate 21.—Age 24. Typical asthesic leptosomic body type. Machinus scholarite abilities; wanted to be a teacher or sabelman, but funds issumficient. Because factory-worker, tried to take private classes. Very presimilation, does not see any value in life. Serious asterupts at euclide when 19 and ill years old. Generally praceful, quiet, introvert, and pondersome. This shy retining leptosmate, in spite of sexual excitability, first attached himself to a girl when he was 21. Atterwards self in love with a girl unse years his sentor. Discovered these amounts later that she secretly had sex relations with her combower. Books of his encarement, but

veturned to her. Both of them icalous of one another. Girl represented him for dencing with another eirl, and teasingly threatened to many another person. Her unfaithfulness and threats drawe has pessentian to a maximum. The idea of spiride came to his conscioneness, and directly after this the decision to take his "love with him unto death ". He throttled the girl and took poison himself.

The self-insufficiency feelings and consitive egocontiments of the lentosome in this case are interral factors in the spicidal and provider tendencies. The idealistic proticism instead of acting as a determent proven to be an incentive to the act. Vacue ideas of a more complete conjugal felicity in an ideal world are connected with his sexual problem. Weissenrieder especially mentions that the above case is a type of puberty catastrophs-another instance of constitutional sumilarity between the leptonome and the pubert. In prison this individual showed a very good conduct and social prognosis. He prefers solliary confinement to mixing with the rough criminals. We shall see that there is very little difference in this person's behaviour and that of a depressive cyclothyme to be discussed later. Hoffman has also analyzed a similar case which, judged from his additional characterisations. must be predominantly leptonome with perhaps slight nyknic admisture.

Hoffmann's case shows the connection between the erotic centimental aspect of the secual impulse and the murder ideas more plainly; the young man registabased that in one of their intimate moments the eirl had declared that she would prefer not to five when he died. These are fairly extreme instances of Schimid psychopaths. But even it, as we believe, there are good grounds to suspect more than only a difference of degree between these prepsychotic psychopaths and Schizophrezia. there does not seem to be a qualitative difference between these psychopaths and normal temperaments. typologies of normal temperaments these psychopaths present exquisite material. One of the above cases (Case

20) may already have been subjected to a real "process" and that is why from a mornal point of view he is in acons respects an enigma. Most of the other cases are, we believe, pre-paychntic personalities and psychopaths, whose analysis, as Burnès says, dissolves into normal psychology. In the servicite of a few of our leadance to have been as an account of the processor.

In the sex-life of a few of our lentocomes we have observed another interesting quality which sometimes leads to delinquency indirectly, and is of great theoretical importance. Promisemity, my we mentioned, is not frequently found in the leutosome of this age. Even if physical occupal relations are strongly desired and continually pictured in phastasy there are too many inhibitions to realize these desires in the natural course of unmerried conditions. The only concretanity of satisfying the impulse in a natural manner is therefore marriage or another extended intimacy. The result is that these leptosomes fondly contemplate marriage before their limited physical powers have made this possible sconomically. Another explanation of the early marriage ideas of some leptosomes may be the following: We saw that leptosomes are characterised by perseveration of ideas and especially wolfsional artifudes. Such attitudes or intentions in the background of consciousness give system and consistency to their behaviour, and also make continued themshiful manipulation of ideas of the future comparatively easy. The autism (seclusion, self-life, inward-direction) of the leptonomes also favours constant and repeated identional presentation of future possibilities. The result is early permanency of sexual relationships, because the future marriage or permanent relation is worked out in detail in phantesy and quickly coutes a permanent attitude. Possibly both these explanations are valid in all such cases, because these qualities work together. Other factors also add to the tendency. The selective idealistic intimacies of the Schizothymes certainly predispose these persons to permanent sexual relationships between two persons only. Promiseuous relationships with members of the

¹ Bunke, Die Genzes der Geleige Gesenfleit, Mitschen, 1928.

"common" is averse to the idealistic, "exclusive," or sentimental indicateins of some Schizothymes. Young Schizothymes of the leptosome variety are generally still strongly influenced by the pubertial tendency to "exclusive" relationships. In one of my leptosome case this early personnency of the sexual object was shown very clearly.

Can 22—Age 22. Changed for their by felse pretandons. Bought open fram matives on farms and gave them a false chaque in payment. Asked natives not to cash cheeps in the town nearby but to take it to a neighbouring and term digitant town. This smalled him to dispose of the stock before his falsebood became public. Province convictions: Stock their, 5toly these from a rich surface who cannot count his stock. Says farmer would never have discovered the their if the brurer had not informed him.

Boy is a very typical, tall leptosome. Quiet, reserved, and reflective. Weakly incelligent. Has some quiet ambittom attll. Works hard to harm blackamiching in the reformatory. The others boys tell one that he is generous and kind-hearted to them, and aware to faith, served is a crosch included in

by reformatory boys of his are.

I am inclined to believe him when he told me that in both instances of conviction he wanted to get married, but was too poor, therefore stole to get a footing. He keeps to one girl at a done, and could not satisfy his physical sex desire before he was massied. The girls also seem to sponge on him and leave him as soon as he sets into trouble. His lutters also fairle reflect his attitude bowards eirls, as in evident from the following notes: To Sannie, his former girl, grateful too her letter, pleased to hear that she is now gutting married, wishes her God's blossing, but warns her not to be in too great a hours. Asks who the happy man is and when the wedding-day. On a allver-oak leaf the words
"Remember me, Samue". (A mouth later) to Sannie,
asks forgiveness if he had hurt her feelings in the previous letter. Is very sad that she did not reply. Cannot forget her, has tried, but loves her more than ever. Would like to speak to her about his difficulties when he is released, even if she is married. Pathetic, sentimental letter.

This case is of little value from a nex delinquency point of view, but it illustrates admirably how persistent and selective ("enclusive") the love relations III the

leptosomes may be. Even after the leaves him, he remains sentimentally attached to the girl. The pyknic would, under similar circumstances, urphably have re-adapted himself. Cyclothymes and also athletics, as we shall see, satisfy their sexual desires more paterally without an inhibitory sense of self-insufficiency or unpersusary sentimental limitations or idealistic scruples. Leptosomic Schizothymes are more inclined to "exclusive" persistent relationships.1 We know that comprensations depend on assertive tendencies to a settine of a sense of selfinsufficiency, timidity and weakness.* The burning eroticism with its kinalistic tendencies and self-insufficiency -as it especially is manifested in lentosomes-does not only lead to permanent intimaries but also to self-sacrifice and compensations. Highly developed, byperesthetic isptosomes may be dominated throughout a career of indefatimable intellectual activity by self-insufficient erotic ambitioumass and faithfulness to a single sexual object. As such they may be victimized by the sexual object on which they are emptically fixated. One of our more passionate idealists (leptosome-athletic body type) repeatedly stole graspoohone records, and on one occasion a violin, to please and impose once his idealized girls. Those cases of love disappointments leading to suicide and murder, as discussed previously, can also be construed as compensations in an erotic, idealistic, involved framemork I

22 Sthesic Reactions

(a) General Orientation.

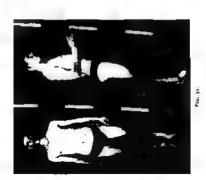
We have, so for, dwelt largely on the authoric qualities of the leptosomic Schimblyme, because the average

2 Not only the flight pulsy death, but also the idea of making other persons responsible for a ruised life soft in the cause of such suicides. (Weekers, Zirchi J. Mage. and Proch. Bt. 122, p. 509.

³ This is another instance of correspondence between the early puberty developmental place and the laplaceaus personality.

⁸ Hoffmann, Aufbew des Chemites; filescheime, filed. Psychologie; Schneider, Psychopaticule Pensoliciabiles.







bostosome seems to be more astherically inclined temperamentally. We saw that the sexual life and the autism of these leptosomes are intimately related with the authoric form of experiencing. But it also became evident that compensation tradencies are disalayed widely in leptosomic behaviour. This is to be expected. Hoffmann, following the doctrines of Adler, indicates clearly that compensations result when a sthemic-asthenic temperamental antinomy exists.1 It is a consciousness of success of vindication. power, in a setting of self-insufficiency. Kretschmer also conceives it in this way; accentuation of certain asthenic partial attitudes as "assurances" against the dominating authoric experiences. In hysteria we haveas Krutachmer has shown in his classical monographa special form of over-compensation. Also, the sensitive developments of the autistic Schizothyme and Schizold are compensations. Kretschmer shows that in the sensitive development there is a stheraic "sting" of pride and striving in the framework of self-insufficiency feelings. With increase of the sthenic elements jaggressive highminded self-feelings) we get an estbenic sting in a sthenic setting, and as a result expansive natures. [Tealousy, obsessions, querviants, anny annessiveness, with fanatical tenacity.) The pure asthenic reaction type is passive, parasitical and depressed. The real athenic reaction type a imperturbably self-confident, and optimistic, but the proportions of sthenic and asthenic elements in the mixed temperament give the interesting authomious qualities which are so much emphasized by Hoffmann, both in pathology and in normal characterology. There are hardly any leptosomes who are entirely asthenic in their attitude towards the environment. There are always possibilities of compensation: the building up of an autistic inner world, the realization of sexual and erotic wishes in phantasy, moral and religious rigorousteers, scruples and prudery, are all forms of compensation found particularly

Anfone das Chernheers, 1988, p. 117.
Kratechner, Über Hynheim, Leipulg, 1982; Mail. Proch., p. 182.
Kratechner, Über Hynheim, Leipulg, 1982; Mail. Proch., p. 182.
Psykopoulus Chernheim Michaelman, Mail. Psych., p. 187. Schneider, Psykopoulus Presidentististion, p. 41, 45.



leptosome seems to be more authorically inclined temperamentally. We saw that the sexual life and the antism of these leptosomes are intimately related with the asthenic form of experiencing. But it also become evident that commensation tendencies are displayed widely in leptosomic behaviour. This is to be expected. Hoffmann, following the doctrines of Adler, indicates clearly that compensations result when a athenic asthenic temperamental antinomy exists.1 It is a connciousness of success, of vindication, of power, in a setting of self-insufficiency. Kretschmer also conceives it in this way: accontention of cortain authenic partial attitudes as "assurances" against the dominating authenic experiences. In hysteria we haveas Kretachmer has shown in his classical monographa special form of over-compensation. Also, the sensitive developments of the autistic Schizothyme and Schizold are compensations. Kretschmer shows that II the sensitive development there is a sthemic "stime" of pride and striving in the framework of self-legaficiency feelings. With increase of the stheme elements (aggregative highminded solf-feelings) we get an arthenic sting in a athenic setting, and as a result expansive natures. [Jealousy, obsessions, operations, apery aggressiveness, with fanatical tenspity.) The pure authenic reaction type is passive. parasitical and depressed. The real athenic reaction type is imperturbably self-confident, and optimistic, but the proportions of athenic and authenic elements in the mixed temperations give the interesting antinomious qualities which are so much emphasized by Hoffmann, both in pathology and in normal characterology." There are hardly any leptosomes who are entirely asthenic in their attitude towards the environment. There are always possibilities of commensation : the building up of an autistic inner world, the realization of sexual and exotic wither in phantasy, moval and religious rieprosessess, scruples and prudery, are all forms of commensation found particularly

Aufore des Chorolters, 1829, p. 117.

Kistichers, Ther Hysinels, Labridg, 1827; Mol. Psych., p. 182

Aufors des Chorolters ; Eventuliumer, Mol. Psych., p. 187. Schneider, Psychopalium Farehalisheim, p. 41, 48.

in Schizothymes. In mentally highly-developed Schizothymes, magnificent intellectual activities, characterized by marvellous tenacity are not uncommon.⁴

(b) Companyations in their care small circle.

The extreme craving for recognition which we have seen in a previous case (Case No. 19) may in some cases of submit or pure hydrocones lead to vain boasting about their own abilities and intentions and to other delinquent compensations. But it is very typical that such verbal suffacements or other forms of self-ensertion are usually exhibited in their own bittle circle only. They compensate in their own circle for the lack of ecognition they receive generally:

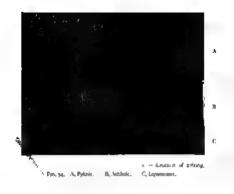
Case 23.—Age 10 years. Stole small articles from a billiard room where he played secoker. Sent to juvenile hostel form years. Frequest change of employer, though kept to same type of work—bootmaking. Hostal wardon states that he is disimilared to work. Descred from hosts after a year, in court stated that his get became pregnant as a result of their relationship (boaring such served acts to girl) and that he descred to many her. He further stated that his wages (2 10s, per week were sufficient to keep them, and that if the court does not show mercy and ise him free to marry, the girl's name would be nimed. Sent to reformancy for remaining year. He and his mother are mentually extremely attached.

Told me thus he samed \$4.10c, when committed. Likes to dance in modern styles. Preferred to dance with his own get throughout the averaing. Heat this girl for over two years. Visited her every night, stayed up to 3 o'clock many times. Good conduct in referrantory. Quiet and timid generally, but very fixed of talling to me about his musical ability, his howe-like ever, when are monthstebildly corroward.

^{1.24} is an arkinowicelpud fact that the proced found of Schistothyany as it is found in pre-sympthetic ans characterized by assandable in dustringanees and conscientions application. Empl. "Schizopylarus's bei checkligen Mantercachipting." 21 f. News. 8. Expl. 12.5, 93%, bas given is beineralized Mantercachipting." 21 f. News. 8. Expl. 12.5, 93%, bas given is bettered to acceptant the second of the second of the second of the second conscientions industriousness. It has also howe experimentally verified by Ealso. 4. eds., pp. 2350, 262. Wide has Philipsian and Colorator, pp. 181, 185, viz. 1 Montelmanna, 49, cfc, W. Januards, Gresninge; vide Canthe, 49, and, 3, p. 189.



Pat. 111.



To some of his course nucles he is also beautful about his past misdeeds and annual examples. His letters are very instructive. These are some of this notes on his numerous letters to his "beloved mashes": High flows lideas; nearly a page on the state of his health " and hopes the same from them". Each with "is lawing conclusion". Numerous phrases like the following: "With soon news from the didity"; "regards and thanks to everythody"; "tons of love to received and read mother's most vedcome letter"; regards and thanks to everythody"; "tons of love to rother. His capitals are very showly and large. On the whole his letters are very contentations (vide Fig. 83). Remeatedly writes than "I am existe to play on my dargest

sister's piano and he at her home with a vicinity.'' I have very good tests for all musical succurrences.'', '' lovus letters, vicinity, forethers, and sixter', '' will accompany his inter's plane playing with his vicinity when the returns to the dearmons; 'a muse it loss appear, tried once, and hurt my face.'' Very significant from a personality point; of view are also the following: File is dy, inequisitive, and curring in his relations with the boys. Is easily perpussed by others. Strongly distinctions to have himself photographed in a nucle form; but when approached is a friendly munter, he agreed to it, provided that he was taken alone, and not with two others—as wear my custom (vide Fig. 31) In the reformatory he made fidnessed as one of the proposed of the season with his gift's inicial on e. it. He boasts about the fact that it is the only time worm his reformatory. At the switchmise

with his girl's install on at. He bosses about the fact that it is the only ring worsh in the reformancy. At the swimming pond he is quiet and aimid of cold water; he have dives, but waters himself on the side of the water, hardly swriting his hair. Disdains to min with the crowd. In gravited tests he is way active. Fries to exact. Saret off with a task before he knows the inversesions properly, only to be able to finish early.

This is a typical form of compensation by the aethenically

This is a typical form of compensation by the arthenically built and the pure leptonome. This boy's failure in spot, daily work, normal group-life, are in fine with his fundamentally asthenic attitude. But he compensates for this in his sthenic attitude in mosai, in his showy letters to his mother, his hurry in the practical tests, his exclusive courting of the one girl and boasting with sexual acts when, his brass engagement ring, six. All those forms of compensation do not require active self-assertion in the face of a normal environment. There is but little difference between realization of whites in plantany and partial realization

of them in a small selected circle with a nervous retirement from the open environment.

Some leptosomes, however, compensate for their feelings of self-insufficiency in a less sechded and more openly active assertive manner. They venture to restore the athenic-authenic combibrium by tenacious exertion in the physical field, deeds of brayado in delinouency, discinlinary domination of others, sham boldness in their relations with rirls, etc. All of these stheric reactions can only be understood in an authenic setting. Skawten has shown that the average well-built leptonomes pull very good ergograms if the fatiguibility of their muscles is taken into consideration.1 We are inclined to believe with Skewran that their self-insufficiency feelings (becaused sensitivity by him) have much to do with the persistent " attitude to overcome the accumulating fatigue".3 Other factors not to be lost slaht of in this connection are naturally the easiness with which leptosomes generally "adhere to intentions once taken ", and the "perseveration" tendencies already mentioned by Enks, Kratschmer, Pfahler, and by us in previous chapters.4 The leptosomes of Skawtan's triangle-argogramtype, who correspond to tenacious energy as found in long distance runners, are no pure leptosomes. As previously stated, they are well-built with frequent athletic admixture. It seems to be a general rule-at least in our experience—that athenic qualities of achizothymes in social, sexual and practical fields so parallel with athletic somatical characteristics. Such features as the following

⁶ P. Shawran, Typinings of Engineers.
⁸ A. A. Mumford materials (Emiliar Geometh, Oxford, 1927, p. 188) that the legitimes type raw the damper of overworking themselves (nonratheals) without knowling it, because in them narrous expansions. (invertablends) without knowing it, because in them nervous extrastion study to set in without any pertulindary super of latigue. We bounder this laberprelation to be interest. The tephosome is often inclined to overwrate hispath, but it is one genome of his dever to compensate (add-insufficiency feedings) and his neithrie week physical approaches. I Balte, 2 (1984), f. Asp., 2 (1984), 1884, 2, 1984; Kritsteiner, Med. Pryck-, p. 158; Physique and Character, pp. 138, 173, 239; W. Jectlech, Physical approaches, pp. 158, 2 (1984), 1884, 2011, 210, 222, 244, 503.

and depression from Nij where we have endeavoured to show that depression deposits on authoric physique and temperaturental factors.

are indications of athletic constitutional admixture in the more active, self-assertive and enterprising leptosomes : fairly strong representance over the whole body or confined to certain parts, e.g. shoulders or loss; broad bravy shoulders; massive bones and joints; entremely great height not due to cumchoid less; height of nock, face. mid-face and head (high head) : Jame broad were : athletic shape of lower law and thin; have east; large course hunds and feet : course texture of skin : hard course head hair: secondary hair on face and trunk: etc., etc. The more pronounced and distributed these sometic characterfating are, the more athleric the sometic constitution becomes. As we shall indicate in other chapters, this conclusion is in line with theoretical considerations. For active self-essection, very necessary factors are persations of tension. Skawran and Sterring have demonstrated that tensions are important components of the act of will. Now, us we shall later indicate, the consciousness of tension depends upon the roses and sension of the skeletal muscles. Accordingly, well-developed muscles are presuppositions for active volkion. Another theoretical consideration in support of our conclusions is the following: Active self-assertion is a typical mesculine form of behaviour : and, as we shall endeavour to prove later on, the athletic constitution seems to be that of the normal typical male. with the masculine glands (Gonada, prepituitary and adragal cortex) in a state of hyperhection.

We have not sufficient material of lectosome-othletic

W. Jactisch, op. 176, 167, 162, 418, 438, his represently emphasisted that this pare T-physiological-complex is contensity accumpanied by "Attaiounteen, investment", mindrust, depression, withoutstaken, investment, mindrust, depression, withoutstaken like, remaye." We shall show in the supped that the year T-hada almost

coincides with leptonomic achinothymy.

According to the fasting that quinquey bus un affinity for the arbibite physique type, and rivede of Morbhamana on the gasterical manageribility. of sportsmen, it would appear that well caracted persons are motorically more excitable than others, i.e. to pursue with a good sinfetal musculature more excepte that given, he we prome write a given sametal minimature mervous excitement has a sensional to discharge into the motorial obtines rather than sinks may offer survive. Muscalar percent therefore for not only have stronger momentum of negligible when their market receive service discharges, both their medicals continue are mark susceptible to such discharges, both their medicals continue are mark susceptible to such discharges, both their medicals continue are mark susceptible to p. 1981.

mixtures or the space to treat exhaustively all the forms and degrees of atheoir reaction in the schino-group. The following typical examples must indicate on large lines what we mean.

(c) Tenecious curry.

We have naturally not many cases of this socially valuable sub-type in the reformatory who were committed because of their tenacious energy, i.e. the tenacious energy can hardly be a cause of delinquency. But in many delinquent acts of athletic leptonomes the tenucious energy was displayed clearly. One boy of 19 years, accompanied by a smaller boy, rode to a farm at night on a push-bicycle to steal dankeys. He could not find them at the kraal, but followed their spoors into the fields. He found the donkeys and drove them to a farm many miles distant. but them in a kreak and thee felf salesp. This must have involved much energy Another boy of this type (26 years of age) stole so many things from one place that one marvels how he managed to carry them as far as he did. On another occasion the same boy stole 4 tuning forks, 2 concertings. 4 locks, I footsule, 1 missiele, set of wire clippers, I knife, I mair of shoes, I bottle of flue, I packet of sandpaper, and removed all these arricles through the skylight through which he had entered the store. Another boy of this type walked more than soo miles to a farm of a gentleman whom he knew. When he found this person away he stole a pair of leggings, 1 pair of breeches, 2 macintosh, shoes, khaki trousers-all articles required for longdistance walking, of which he was very fond. At the reformatory's swimming pool he manifested indelatigable energy in diving, running and numping into the water. On top of this he has an amountated heel. He is the best ions-distance runner at the reformatory, as well as a good cricketer.

(d) Self-assertion Mistrust.

Cent 24.—Age 19 years. Stell bloyde; previous conviction also for their of bloyde. Six days after committal he abscorded by bolting from the farm-party when at work. They all tried to continue him, but he outran his pursuers. He remained at liberty for three months, then style a suit from his brother and was savested. In court he stated anerily that he would recipe mison food to that of the reformatory. At the reformatory he II now, however, submissive to his superious and dom good work, although he attempted another escape in broad davlight shortly after the second committal.

Real colour showed to me became he knew that I could not force him. In tests wants to know why we test them. Says defaully that he is doll, and that everybody knows it. Very suspicious that tests had some evil ourpose, and openly stubborn. Tries very hard in exocl in the tests, but very difficult to calm his very expensive ero. When measured. very kind appeals and flattering lenguage on my part hardly managed to get him to step himself. Obstinately and defiantly stated that he could not see any good in our Investigations. Said he had so be distrustful because one cannot trust one's own brother. Did not want to have his photograph taken, although 95 per cent of the bove accorded and I tried special coursesy and very humble appeals. The climax came when I started with the lesserview and asked him in a very friendly tone whether his parents were still alive, and how they were built, etc. He refused defautly to give me now particulars, stating that pobody had anything to do with his parents. On the sports field he reveatedly stated that he colo wished he had my brains and in would be another man. At swimming I once saw that he delighted pushing a smaller boy under the water.

Sometically Legacocome with distinct athletic admixture.

The feartomeness of the average leptosome in these variants is displayed in a much more sthenic form. The boy faces his environment defautly and not with submissive timplity, but the astheric setting of his athenic seactions is very obvious.1 There is little of the imperturbable, optimistic self-confidence of the pure stheric reaction type. All his aggressiveness is prompted by the basic sense of insecurity. Though in his attitude

We are now ness the real "expension" machine group (Med. Peych., p. 186) and there is already some declarity with Refutick's narrow margined systematic and with paramid quantitatic (Shylotales) willing, 1929, p. (146).

towards my appeals there is much of the "cold despotic type (moral kind)" described by Kretschmer, my case still falls outside real issuality, i.e. is a churucterological variant of the schizo-group. But Kretschmer's case, with obsessions against his parents and brother-in-law, all of whom he thought guilty of lior sixter's death, is certainly post-psychotic and assach retained "dissage", or "process" churacteristics.³

(s) Rigid Disciplinaries (compounations).

Gair 25.—Age 188 years. Over a period of a month stole 158 from his employers by classings choques. As officed by the vertex out chequica leaving sufficient space in the vecto-limit to insert additional words start the chaques were signed. Changed 9 into 9, etc. When charged, he pleaded gullty, and asked for servey: was fattlerlans, handed his own aarmings to his mother; senseed money to buy and lessy motor-cycle: could not bear to allow other boys to give him bifts on their cycles to cricket staid—wanted may have his own commensation).

In reformatory excellent work and ambition in school and on farm. See a portsman. Tried anguly to meri perlas of officers and very willing to make himself useful in institutional engagements and discipline. Within a year and a half after committed he became the chairman of the Boys' Representative Committee. Proved excellent disciplinarian and able to control majority of hope.

My observations: very easily burt if his authority not recognized; nervous sterness (owned) jokes of boys; asmerimes hands measures to exeme discipline; timid and any of being photographed and actaward in stude form; ashamed of his brownish skin and lack of beard; seger to please haddnater and vmy found of groupsition; feels unocetain in

¹ Physique and Cherneter, p. 104. This temperament, described by Kretschmer, developed after palenty as a radical change from the priyabertial, consequences, researced, endour, and hard-working personality Patterty was delayed and when it came wought remarkable changes.

Kreinchmer does not fallerentinini cleantly between per- and past-pay-hobin characteristics, holds good. Lupid, Zhaliedi, J. Neire, and Paylo, 112, p. 20, has incline the lower drives such mostle stockers and presentatives p. 20, has inclined the drive of the such most stockers and presentatives that test professed and the such participation of the such states to looked upon as psychotic and met characteriselgies. Janach also emphasizes (ferminismy, p. 123) that only in per-population forms are three definite ministers believes methods and in T-type.



Fro. 37. Sportnesses deswings by Leptonomes, one-Gird natural size.



his position: persistent energy at elipping a long hades: unfriendly towards me for a whole week when I reported some of his secret panishments to the authorities : friendly when humowed. Does not delight in suffering of others, but does possishing for the sales of order and to please

The athenic reactions are shown in his disciplinary control of nearly 100 hoys between 164 and 22 years of ure. In committee meetings he asserts himself drastically. But on careful analysis the feelings of insecurity and lack of self-confidence are very manifest. It is obvious that his delinquent act is a direct outflow of fill ambitions. viz. the fundamental strupple to cause his position in the tage of subjective insecurity and objective obstacles. It is extremuly interesting to compare him with Case No. 27, to be discussed later, who is more self-confident and imperturbable. This latter case is also nearly a complete athlete, i.e. is more ribenic, and not so much stimulated by the asthenic factors calling for compensation. The more completely athletic and athenic the achieothyme becomes, the less anxious compensation and expansiveness is found and the more calm self-tonfident assertion.

In connection with organization, discipline and, in general, self-assertion in a leader capacity, it is interesting to note the following observation: The boys have organized themselves into sub-groups, so-called "corners". These "corners" are for purposes of gardening, conversation. recreation activities and also for many secret practices such as smoking, samegling, card playing, dirty sex talk, and pictures. Each corper of which there are about twelve at Tokai reformatory, is led by an influential inmate. Of these corner leaders. I found 6 athletic leutosomes. to fairly pure athleties, and 8 well-built or athletically inclined pyknics. There was not one pure leptosome among these leaders. The healthy schienthymes described by Kreischmer under the group "Cold, Masterful Natures and Eggists "2 will undoubtedly have strong athletic

constitutional features as well.1 Such descriptions as the following, we feel more use upt twicel for the care leptosome as described by Kretschmer, but for the leptosomeathletic mixtures and complete athletics; "energetic," "figures of officers and officials," "insensitive to danger, rigid, cold, and hom to rule," "exaggerated notion of honour," "they are decisive and take sides." "they feel at home in an atmosphere of commands and stiff beautycratic discipline," "their passion for rights and discipling borders on narrowness and painful misanthropic coldness." "power-seeking builders of courts, and tyrants of houses," "coldly clever," "unscrupulous and cautious," "sharp formal intellect" (as we find them in lawvers). "ambitious." "successful." These qualities are transftions and mixtures between the excitability-duliness antipoles of the achizothymes on the one side and the boundness (Gabundenheit) -driven (Getriebenseln) antipoles of the endentoids analysed to locidly by Delbrück. on the other side. The epileptoid characteristics, so common Esthletics, are fundamentally of a sthenic pedanticerocentric nature, as we shall see. This, combined with the achizothyme's autistic idealism, gives the rigorous disciplinarians in moral, social, intellectual and military fields. The schizothyme's encitability in an authenic metting produces simidisy, in an autistic authenic serving sensitivity and world-flight. The schizothyme's dullness takes the form lame, retired social attitudes of the " Dried and Emotionally-lamed" who are "constitutionally subaltern" according to Kretschmer. Athletic admixture adds to the schinothyme the sthenic egocentric "drivenfrem" and "boundness", and gradually changes the picture from the asthenic and the sensitive reaction forms

Delbrück, "Geftinien zum Kinguchte und Chirukter-problem," in Accins. J. Psychotole, Badin, Bd. 62, p. 768.

Physique and Chetwite, p. 225. This is the only practical, wherpite, self-ascritive achizothyms for healthy imageneous taying roup eternibed by Metechane. One could handly argue to have found it otherwise because "significity", "wealthy impulsed," constitutionally substrate, "inaccurity in the late of seal lists" are, according to Kreisblider, some of the interestal charge-printed of the following roup. It is problem, and the interestal charge-printed of the following-roup. It is problem, and the control of the charge of of the material from which Kretschuter made his classical analyses.

to the extensive and otheric reaction forms: from the subaltern, sensitive affectively lame to the active aggressively cold. The diagram in Fig. 40 will coughly indicate how these transitions and mixtures may be conseived. In normal healthy achienthouses these otheric characteristics may have great value and attraction. In fact, they characterize the rational, strong, silent man who does not let sentimental factors influence his rationality and principles. But in certain forms of cold brutality found in criminals we reach the nevchotic border already. Even if, from a clinical biological point of view, there is only a difference in degree between the socially valuable form and the psychotic forms, it is still very necessary to differentiate clearly between them from a social point of play.

(f) Delčnovená Bravado Dada.

Case 28 .- Ago 19 years. Stole seven motor-ours, which he took for "loy-rides" and then abandoned. Also stole (3D worth of men's clothing in two counts, smashing very valuable windows for his purpose. All done in the course of ten days. Previous convictions: forgury five yours ago and common their eight months ago. In court he pettiloss about minor details, e.g. tools taken with cars or not. Acknowledges the main charges and take for mercy.

Observations: Calm, dry humour; easy-going; cold and unconcerned lesters to his home; calm and unconcerned attitude to his long sensence and to my investigations: myn his photo will be an excellent illustration for a police paper; calculative. At swimming poud a real wall-flower, never dived or even wet his hair; addicted to musturbation and fend of dirty sex jokes; moderhand dealings with fallowimmates and very boastful about his past misdesds and

his connections with coloured women.

In the interview I discovered the following: Once stood with a few boys on street curus. Discussed criminal acts, each boy boasted about his own. One of them challenged him to steal a motor-cycle standing close by, while the owner Went into a building. He reacted bearely, rado round a block. and came to where boys were standing. They patted him on back; he felt immensely pleased with himself. That was the beginning. When motor-car stolen he enjoys to start off and stop being an admiring crowd, and also likes to

pop his head out of the cur while he is shiving so that people may see him. Likes fine clothers very much. Always want to carry a revolver with him. Would never shoot with it, but likes people to "knew fit, though; to know that I am a big man".

Fig. intelligence is very fair, and he knows much about himself and his saims. At the same time he is fairly pendive, the did not reach further than Standard 5 in school, ratted on carpentry but aften changed work. He is certainly unfit for manual work, and did not have sufficient scope for his intellectual athities.

intercertain ammines.

Sometically an athletic haptenessne (wide Fig. 32). Athletic characteristics: bength of face, monided lower jaw seen in profile, large ears, broad note, muscriar legs, hard head hair. His manner relatives are very muscular.

This case is of great importance. First, we can clearly see that the heroic reactions are intimately connected with a sense of inferiority. He is very conacious of himself and wants to get recognition of this. "reflected self", spendally in its physical manifestations. It is not make self-icelings manifesting in aggressive optimism and unreflective assuming as it is found in the hypomosaic cyclothyme. But it is no "ago-conaciousness" which, as we have stated praviously, is a product of autistic cellectivensas. As Kretachmer save: The actishesis "E "and "The restormal

Kretschmer says: The ancithesis "I" and "The external World". A constant excited self-analysis and comparison (wide Case 35). He steads motor-care and clothes to be able to pose consciously before admiring ecowets. During his pose he in conscious of binneght primarily in the form of images and ideas—not no much in the form of itselfing-tuned organic sensations. It is important to note that anjoyment of motor-thieving, as compared with that of cyclothymes, to be discussed later. The teptosome enjoys to be seen, to pose as the big man, and would feel very little attracted to "joyrides" if sobody was present to admire him. His "joyrides" are compensations for the lack of the recombition which he desires so fervently

(vide also Case 25). The cyclothymes, as we shall see, naively enjoy the "joy-sides" for se. The "sensation" of speed, the actual act of controlling the cur, i.e. a functional pleasure, so that of a child beating a draw, that

is what appeals to the cyclothyme. We have very seldom found schizothymus who steal motor-cars for the take of "joy-rides" or even for show in the above case. When they stole a motor-car or cycle it was almost always to keep it permanently, or to use it for a definite premeditated sim such as in Case to We have found many evoluthymes who steal cars only for " joy-rides ". The above analysis indicates that even where schimthymes, who are so calculative, steal cars for "joy-rides", their aims are In evelothymes it is more functional pleasure, playfulness. while in schizothymes it is a compensation, a struggle for recognition by a self-insufficient feeling person. The fundamental difference is that the schisothyme is always so conscious of himself and of his aim. It is, as Kretschmer says. " a constant excited self-analysis and comparison." The evolothyme, on the other hand, is more naive, childlike, playful. The cyclothyme gives himself up to a project. identifies, integrates himself with his environment or momentary aim in a netural, casy, emotional manner, When he is busy with something his ego and the environment dissolves into one integration-complex, he forgets himself and loses himself. The autistic schizothyme on the other hand is never free from the antichesia " I " here, and over there " the external world ". We have a similar case as that outlined above, where a boy tried to components in the following manner: he lifted a siris on his motor-cycle, and made to the police station, where he made a particularly land noise with his cutize to show the girls that he was not afraid of the police. In reality, he is timid towards guis and the rest of his environment. Whether such sthenic reactions take the form of more phantagy, of unfounded boasting or, finally, of overt bemoir escapades depend mainly on the degree of athleticism in the constitution

Vide Epley, ep. cpl., 281. "I was a little numbirisme in such things." and the mell-intelligent approach a second mail the mell-intelligent approach who looked accordingly and operationally fast apportunithing to components.

SUMMARY OF CONCLUSIONS

 Withis Hmits the achiev-concept is a valuable working hypothesis.

2 Leptusones must be differentiated from athletics, the

former to constitute the real schiro-type.

3. The authoric form of superionizing and function becomes more and more pronounced as one moves from the athletic leptosome to the authoric leptosomic physique (transitions according to my Triangle of Tamparaments).

 Such authernic mental qualities are manifested in daling upncy to: Lack of energy, succeptibility to influences, lameness and

timidity, cowardly acts, careful calculativeness, etc.

5. The autism of the schino-type is manifested in deliquency as a banderay to commit acts solitarily, add-conscious compensations, silent scheming, and senseal maladius/ments.

 The achematicism of the echizo-type is found in delinquency in the form of ghanned premeditative acts. It is narrowly connected with shelf volitional actitudes, self-

insecurity, etc.

7. The sexual impulse of the leptonome retains many pubertial and pre-potential qualities. This is vary important from a theoretical as well as a delirquency point of view.

d. Particularly with the increase of salkent factors in their constitutions, ispnosomes mandest schemic qualities in their minimum compensations, tenadous assegs, active minimum (paramonia, disciplinarianism, and bouvado deeds.

CHAPTER V

PRYCHICAL (INCLUDING DELINQUENT) CHARACTERISTICS OF ATHLETICS

23. Clinical Studies on Atlitation

The athletics have been grouped by Kretschmer under the schizo-temperament group. Later cessarches have indicated that not only on clinical grounds are there intimate relations between leptonomes and athletics, but also on experimental psychological grounds. Eache has shown that in the persistence of intentions, endurance of tensions, e.g. in consistent regular pressure on the pen in writing, forethought in the suspicion test, etc., the athletics and leptosomes differ widely from the poferior. Van der Horst's experiments area more or less the same results.

But we have already indicated in the pravious chapter that there are also wide differences between leptonomes and athletics, especially as far as sthesic-sathenic reaction forms are concerned; and we indicated that the sathenic characteristics of the leptonomes are intimately related with their sexual, autistic, sensitive and even premeditative characteristics. We may, therefore, also export significant differences concomitantly with the differences in asthenic subsanic proportions between leptonomes and athletics in, those other characteristics which we have seen to be intimately connected with the asthenic-sthesic proportions. This field is, however, as yet very little worked, and we can only give isolated qualities of delinquent athletics with perhaps a tensitive hypothesis of their intervalations.

We may start from what has been found about athletics in clinical researches, because, as we scentioned at the beginning, clinical observations and researches are perhaps

Enke, Initehriff, f. Aug. Psych., Bd. 36, pp. 287-87; Zeitschrift,
 Now, and Psych. 105, pp. 685-74; and pp. 778-96.
 L. van der Egyat., Zeinderigh, I. Mont. and Psych. 63, pp. 341-80.

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the best starting-point for more detailed normal psycholocical studies 2. Such clinical studies have shown that there is a biological affinity between epileosy and the athletic and dysplastic sumatic constitution. As early as 1014 Wm. Phealy a wrote this remarkable passage: "No consideration of the epilentic's characteristics is complete without taking account of the populier fact that this disease is tremently correlated with premature development and over-development, both of the experal physique and of sex attributes. In our study of effenders we have seen some astonishing cases of this. I am not aware that any one has offered an explanation of this unexpected correlation." Healy then gives a few excellent examples of athletic delinquents with endeptic complications. But the problem has been revived in a very systematic manner by the followers of Kretschmer's natho-biological doctrines. Delbrück, after Intensive anthropometric studies of epileptics, says: "The apileptic is large, coarse and messively built," " Everything tender, delicate and soft is foreign to the physique of the epilentic." Other investigators such as Grundler, Maus. Kisist, Foreter, v. Rhohden, etc., agree on the high percentage of athletics depileptic enatorial.4 The most extensive work is perhaps that of Krevenberg,1 He investigated 700 epileptics (500 mee and 500 women)

¹ W. Hanly, The Individual Deltament, Benton, 1814 and 1994, p. 419. If it astonishing to note how lettle tide connection is made use of by citizinal psychiatry. In South Africa a case of asserder appeared before the Supreme Court. The accessed was no outstanding athletic. In spite of this the verdict was given Accident, solesoquest anhance covering acts performed by the accessed as a result of shock of accident. It never occurred to the arctical indexess that the dead might have been perpreserved to the medical advisors that the dead might have been per-pertented in an equipped at surger [This was written 3 mangha before the same person, van Wyd, krilled santher inau; for which he was receved. After death sessence he admitted thaving itible fort man (Molley) in a fit of rage; he had quilprin film in his youth) — Poblicate, relativ. f. Pophs. and Recommendents. 17, quotied by Kroyenberg. Vide also Dellanksk, drelike, etc. 22, p. 70%. 4 Evrycarborg. Vide also Dellanksk, drelike, etc. 22, p. 70%. 4 Kroyenberg. Signeyments, Egillepsie and Charalder. 27, f. Neur. and Pophs. 12, pp. 556—64.

according to Knetschmer's sometic typology, and came the following results: -2:4% pyknics, 22:6% leptosomes, 34-1% athletics, 7-9% lep-athletics, 45% dusolastics. The "blek head"—characteristic of the athletic-was very frequent. The leptosomes amongst the enderties had a tendency to broadness of shoulders. also a characteristic of athletics, and there were almost no eatheric leptospores amonest the epileptic material Krevenberg has some further and sub-divided the evilenties into a group with epileptoid characteristics, and a group with collectic characteristics. He found that the athirtic bodybuild has more affinity to the epileptoid characterlatics while the dysolastics have more affinity to the andleptic characteristics. Epileptoid be takes, with Kretachmet,3 as "Rough, defiant, strained III-humour, explosive anger, violent emotions, alcoholism, reactive absounding "; and spileptic as " Board, sugary, pedantin, ago-centric, bigoted, dependent, unclastic, circumstantial, aluggish." Delbrick bas, however, tried to show that the epileptoid or "agitated". "driven", qualities form a polarity or rames of proportions with the splientic or "boundness", "hypersociality" qualities. In the epllentic individual there is constant shifting between these poles, or, more accurately, the "aggressive agitated", "driven" crises develop on and in the basic epileptic matrix of pedantic, especiality, dependent hypersociality, The muscularly built epileptics are, therefore, disposed to temporary epidentisid crises in the above sense, though normally they remain in the epileptic characterological state. In this connection it is important to companize that just as in the proportions "excitability—emotional duliness" of the schizothymes, "exaliation-depression" of the cyclothymes different individuals may differ in their nearness to the one or the other pole, so also may there be differences in the epileptoid-epileptic proportions. Some individuals are more susceptible to the crises than others; and, as in the case of the other temperamental proportions, some

afed. Psychologie, 3000, p. 222. Dullarick, Archie. St., p. 708.

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individuals may chronically remain near the one or other end of the range between the pules "agitated, driven aggressiveness" and "hypersocial boundness".

In connection with the "hypersocial boundness" side of the epileptoid-epileptic proportion it is necessary to emphasize that in our athletic mutetfal the "dependence, hypersociality, boundness " did not manifest as submission to the personal environment. The pronounced selffeelings, self-justification, sense of superiority, prevents submission to other persons. It is more a submission to "fate", to a "godwilled system". In fact, Il usually amounts to self-praise and self-justification by the indirect route of self-pity and martyrdom pretensions. Bumke describes the condition fittingly: "All consideration of others is pushed aside. They prefer to maak about themselves and therewith exhibit a comfortable broad verbal philosophizing about the self, and a satisted selfjustification. They think themselves more plaus. sympathetic, truthful than all others, have special claims on beavenly sterry and earthly recognition, etc." "Many are bigoted and untruthful and all are imbaed with the idea of own righteousness."

It seems as if these tentative characterological formula be applied to our delinquent athletts. The proportions "driven-bound" ascent to ill a valuable characterological basis for interpreting athletics. The calm egocentric self-consplacent "boundnest" haually terms the matrix on which the driven cross develop. In many athletics the calm non-resolutional tractrix of syrupy talking about the self in an uncertifical manner prodominates. Ill others, isolated aggressive crises disturb the calmness. Some are continuously excited to aggressive reactions and never remain on the calm matrix for long. But again, in

² Bondes, Lettrieux der Gnidminenstheiten, pp. 656, 480. The traditional religiousseur of spiloppie chapacters refers to thick all climbiness of the control of the control of the control of the always table of 'their' Good and 'Defr' Shibe I, have found in private life that another topic of which they are very fond in their table? The isom is always milkouppiously, leved, and off-more. "The inherited cowdering, steady must be binded and beauperament, accompanies were; judgment and upt "my Defregick.

others there is a functional combination between the two poles.1 The exocentric boundness to a "godwilled system" is combined with a dominating severity and rigour. This gives us the harsh disciplinarians, severe schoolmasters, eruel systematic fathers, such as Frederick I of Prussia, and others mentioned by Delbrück in this connection. We shall endeavour to present some of these variants of the epileptoid epileptic proportions by means of typical cases so we have found them in our researches. our discussions on the leptosomic temperament, we have previously touched on musy of these qualities in a comparative way. We may reitorate that there are many flowing transitions between the leptosomic and athletic temperament to be construed along the lines of our "Triangle of Temperament" (pura. 58). With the disciplinarians, to be discussed first, we connect up with leptosomic disciplinarians whom we have already taken to possess some athletic constitutional factors. On the other hand, it is probable that ethletic disciplinarians always contain some leptosomic constitutional factors.

24. Variants of Athletic Delinquents: Masterful Leaders.

Gase 27.—Age 18. Stole revolver from an acquaintance when he saw is in a trank. Pointed revolver at some of his friends, stating that safety catch was on. Then wanted to try revolver at the river; placed the revolver in his potent hat took it out in the stress before he reached river. At river one of the boys bent ever the bridge to look down into river. Account aimed at and shot him in the soft part of the buttock. The wounded boy was told not to say anything the polycie. Converse convertions: Storebresking and their when it years of age, their agains when 15. Sent to industrial school till eighteenth year.

In referentatory: Leading sportsman and boxer; good worker and pupil. Determined, self-confident, relentless lander and supervisor in institutional matters.

My observations: pushfounds tresplainers of boys' laws pedantically and releathesity; suchained and vigorous energy at swimming, even on coldest winter mornings; very found of responsibility; meily humanized if physical and

¹ Delletck, Archiv. f. Psych., etc., 62, p. 716.

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disciplinary abilities praised; bears disciplinary responsibility with self-confident one; very responsible when respectfully approached, but at first ill-humoural, defaut, and headstrong in tests; very straightforward even in his latters. In interview he states that he is very found of finarres and militariem. Very much liked work done at Union's military centre. Found of exercising and substituting to rigorous disciplina. Suys he has very little sympathy with weakings and women. Does not mix with girls. "They are too gentle for me, i am too rough." Sometically, a siender mixediar shietie of meedigms height.

It is very interesting to compare the leader qualities of this boy with the more leptosomic-built boy (Case No. 85), discussed in the previous chapter. The present case lacks the nervous sense of self-insufficiency which characterizes the previous case. In the present case the disciplinary responsibility is sought and borne with selfconfident case. With self-complexency the Eco subjects itself to the impersonal system ("godwilled dependence" Delbrück) and with self-confident overbearing pedantically subjects others to the same system. Salfassertion, londness of forceful methods such as firearms. cornoral punishment, with very little sympathy for the victims of his aggressive ego, characterise his delinquent acts as well as his institutional activities.1 Cold risorism. is his key-note. Softness is femininity to him. Delbrück fittingly refers to the ricorous militarium, pedantic activity and narrow views of Frederick William I, the creator of Prominging in confisions the "hypersocial"-"Aggregative" proportions of the epileptoid characterolotical forme." It is in this connection that Delbriick says:

¹ This candows of force, good, and general conglusors, was time found by other investigators—Long Belinner, and Feder—as a characteristic of solution. Vide slop Newly, op. vid., 420 S.

stellants. Vital and Privally, 49; est, 200 il.

"Deliratic (fright), 81, y 186; along given the following examples:
The mathematics function who "is accure, postunite, in general plant,
however, and good-willings. If the does not complion the smallest minching
however, and good-willings. If the does not complion the smallest include
notice that the property of the same and the same include
notice that the same is the same and the same in the sam

"The payche of the cultotoids is a family coherent unity. Narrowly, too manusty, connected are impulse-life. emotions, and intelligence." There is no separation between their systems and the execution of the systems. The autistic leptoscores have a separate inner-world, to a large extent due to their execution-insufficiency in practical reality. The silvenic con-tentric athletics, however, apply their retinual systems in toto. So narrowly connected are the unitional motorical consequents to the rational antecedents in the mind of these athletics that they hardly have a separate purely idealistic innerworld: as Delbrück and Bleuler say, "the endeptoid spilts too little, the schizoid too much "

We can see from this case and the above considerations that there are flowing transitions from the leptosomic to the athletic personably, from achieothymic to epileptold. The same flowing transitions occur between the pylmin and the athletic and between the leptesome and pylonic. ss we shall see further on. It is, therefore, advisable not to think in terms of pigeonholes but rather in terms of our "Triangle of Temperaments," given in paragraph 58, Fig. 50. We shall see in succeeding chapters that neuroglandular correlates can also be found to fit in with this scheme. Such flowing transitions between "types" must be expected an definition! But between schizothymes and healthy epileproids,2 the connections are much

bounds he does not informin nom equinique; a podantic pionimum,"
"Othel chicross 50s will in anchesinal inter of anger." These seaso would
all have been grouped suches the formerly wishe desayation of schoold by Krutschmur.

¹ The icu durinte connections between the actions and ideas of libe epileptoid may pathage be explained than i Biblicheinant (Private/sit-bristypes.he/Terran med Sperdier, Minchang, 1929) (mund experimentally like at sthetics of the Y-type mode extensive see discernicable inages and the attention of the Y-type mode extensive see discernicable inages images were studied expression of the transfer expensive discrete expensive seed of the produced movement. It is therefore possible that in these people the Phaethodic centres and the produced movement. The demonstration that in these people the Phaethodic centres are more in function than other centres of the Cartar, and it is principle find makes insure-tons for the contract cashy to oppose, Magny of these characteristics have also been character in the Dynaric reach, which is imagely composed of stabletics.

* Win. Stren. Differentials Proposition, Industr, 1991, p. 198. 1 The ten parrow connections between the actions and ideas of the

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more intimate than between these two types and the cyclothymes. W. Jacansch also convolucates Kietschmer's results in this respect when he makes the epidepoid a sub-group of his T-type,3 which corresponds psychically, somatically and neareghandularly to the Schizo-personality of Kretschmer. On the psychological side, E. R. Jacansch's school has found in athletics, spottanes and gymnasts many characteristics which are typically schizothymic, e.g. "distance" or "formal arisitudes" without inner emotional rapport in accial confacts; temocity of intentions; selective friendships: fonders of solitude."

In connection with leaders, it is also necessary to mantion that inflantless, weakly-willed persons, self-insufficient hipprosones frequently selder behind the self-conflicient athletics, who then play the physical hero. Our cases Nos. 34 and 36 are examples of the latter type. Athlesic pyknics, however, are perhaps more incilined to act as leaders than pure athletics, because the latter place less value on commandonable.

23. Appressing Violence

Case 2R.—Age 19. Convision of assaint, when drunt, without provocation. Previous convictions: two counts of riotous behavious, assault, medicious injury to property, contravened mose-car ordinance, known to mix with lowest classes. Is heavy disabler. Subber divorced from mother because ill-irnated her and behaved promacurally with other wortes. In referentality: sejoys a Big meal; vary fond of women; confused controllers at times; explosite temps; lacy at work.

My observations: sensily very calm and ensy-going; egocentric, sluggish, friendly, and dependent; slow but painstaking in tests; self-confident III attitude to other

W. Jacksch, Grandrage, 125, 276, 238.

White tagary, e.e. etc.

"The strong contributions on family rounds in the blood and temperamant of epileptods another them to integroun upon work viciting very outly.
Vide also Directory (e.e. etc.) for cannot described by much acti-convinced patter discoverers. It is remarkable to use how also Supreme Courts can be binded with studen of harded trendment and acceptant, etc., by such tablestic editionations much uncomment.

boys: explosive temper, smallest purventition makes him bindly argry and these he reacts with violent conductable; is fatalistic towards his own temper, which he is absolutely mable to control. Inderview: egaleptic fits till the age of 12; physician emperant that he would become insane; boy says he fa afraid of himself; drank heavily, and then his temper still worse; seasons people if they only look at him; does not go is fire sport basence. If hert, reacts primitively; once when tackled in a football roatch he threw his opponent to the ground and was on the point of crushing his hand with a stone; very frequent sexual intercourse with all gorts, as long as they are fermales and wellbuilt. Screatically: tall and somewhat stout, heavily built athibit.

This case can be very well interpreted in terms of

Delbrück's "driven-bound" proportions. Normally, the boy shows the dependent nerrowness, fatalistic alugainhness, but towards his fellows more of a composed selfconfidence.1 It is important to note the latter qualification. Ill low ebb times his fatalism and " godwilled dependence" has more reference to a condition of things to which all and especially he himself, are subjected, than to his human environment per se. This condition of things or " godwilled system " is seen by these scople in many forms of manifestation. His own temper and excesses are looked upon as godwilled, " against which he cannot battle," So also a religious, military or disciplinary system may be submitted to as unimposchable, in a pedantic, narrow, adhesive manner. It is dependence in an adhesive, pedantic and empestric manner with regard to a super-individual system or condition of things. That is why many authors speak of a "hypersociality". The pedantic adherence to a religious system or a military

¹ Ethe found that in pupulment initial union they showed an uncomprisent, semi-factual; semi-factual extends extends and effect at SERMON, and eff our hambate or way much. They are included to do things by brube force. Their most procument extends and physical chimachesticist in mentioners, Burtin.

¹ Delbrück, Artiko, St., p. 786. A very good example of ruch as pelipptic delaqueart is given by Heinly.

² Till ball size, il be a proper of the property of the proper

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prossignism is fundamentally related to the fatalistic attitude taken by these people with regard to their own temper, directance and sexual expenses. In the socially and mentally more advanced disciplinarian, this "hypersociality" pole is in a coherent functional unity with the egocentric, ammenive, "driven" pole of the epileptoid temperament. Accordingly the segressive, driven person enforces the "godwilled system" prossignistically on to his accial environment. The dependence and adherive, podantic submission of the epideptoid temperament is, therefore, not with regard to the social environment. In fact, a basic characteristic of all athletics in their calm periods, as well as when assisted, seems to be the broad self-complacent discussion of their own virtues, their unparalleled value for the church, home and society at large.2 Most of them are unable to see the flagrant contradiction between their broad self-flattering depictions and their intrinsic agreements, their prejudiced retaliation on suspected wrongs with the meanest measures and their blind crises with cruel and reckless results. One could not expect it otherwise, because the broad self-fixtury, blackry. and blind driven crises have one thing in common! the utter incapacity to accusione the self critically. Every act and judgment is accompanied by strong conviction which is innate and firmly rooted in the blood and temperament (Delbelick).

Dalbesich, an. est.

Vide also, Esmire, Labelma, pp. 486 and 498. Healy, op. cit., p. 419.
 Delbrick, op. alc., p. 717. In provide 46s I loops such an apileptoid

Delbrick, op. at., p. 737. In provide this I londer such his philippoid whoman with a manyor alletic physique, a file well always that this convertation to her own egocouries shell of interests, and then with always and bread majority secumpanish by a deep-rooded conviction, stationate on her industriousness, that the convertation, stationate on the industriousness, the convertation, stationate on her industriousness, the product whom deep caled buy to keep, religiousness, regular reading of Cod's Wood, her many excitiones in all postable good directions. The next somement sile well insuft som of those very stopchildren with mean expressions and wearer—and in the name breath tell one of her own children we take her deliver a most happy Christman. Not long after that she will be able to helf-till both her hysband and children, not to mention his entrapolismy valubulary of the most despicable curses this bable; and also seems incapable of socing the Sagrant contradictions. One moment turns of companion, the following hour a vicinal threshing areas. In this case there are probably by sector factors too (at Kunyambang, ep. oft., p. 688).

In the case of the boy described above, the aggressive crises are not characterized by the systematic procedure of the cruel disciplinarism. His weakness of intelligence and more primitively impulsive form of reaction may be responsible for this. On the slightest provocation lespecially on more mimitive levels of stimulation, such as pain-inducement or suspicious-looking at him), he leaves most of his "boundness" characteristics, shifts towards the "driven" pole and reacts with primitive brutality. His aggressions, dipenmanic and accord intersperance develop as isolated moments in fair contrast with a matrix of fatalistic alumnishness and calm self-complecence. But we have found cases in the literature on the subject and also in our own material where the god-willed dependence and calm self-complacence are persistently over-ruled by the "driven" states of strained ill-humour, aggressive attitudes and active agreentricity. It is possible that more detailed and extensive researches will throw more light on the exact constitutional causes of such persistent "driverment" crises. It may be that frequency of crises or continued hypertension depend on particular endomine abnormalities, such as relative size of the pitultary and the sella turcica, or constitutional mixtures such as slight hysterical * or parasoid admixture, socual aberrations, etc. The normally built, more athletic, according to our

³ Many authorities (Bennie, Erryemberg, Healy, etc.) mention that on the digitness providences epilopies except to inview or even briegs. It is interesting to note their the remove characteristic in found in the Dynamic race, which we have seen to have many security similarities with

Jyanar race, water we new serve to neve many weaters measures with ablancies (Counties, Researches), 2 210, etc. observed measures with epileptrics. The frequency of dysphotons is epileptrics. The frequency of dysphotons is epileptrics. The frequency of dysphotons is epileptric also point in tail direction. Bernar has obvour then, pictures, and milk mirror absormations are very latitudelely commercial with antigrouss and copinger, (Copard, p. 278, 278), which has lamily, pp. cit. p. 478; Thumbe, Lerbesch,

p. 886. "Hysterical components have born famed frequently in athletic spliciplic by Kreynelessy." We believe, however, that tree hypochastic Kretchmen, Uber Hysberi) is foreign to the embiration and implementations of the B-type. We would agree with junished that beyond it is a selegation of the B-type. Yield Germelessy, pp. 685, 454; and E-mid. 69. 461, p. 61. Selegation of the B-type of

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experience is often more disposed to callen, calculative selfconfidence than to irritability. They are extremely memotional and self-contained, so much so that Berman takes them to be the type of self-mantery and calculative intellectuality. It is possible that, apart from their own epileptoid (pituitury, selfs turnish) waves, the hypertensions of a sensitive-paramoid or semi-idealistic disciplinary nature may be due to heptosomic constitution; admixture, the hypertensions with sexual complications to sexual degeneracy, etc. (vide Caos 3t). Any neutroglandular irregularity becomes very dangerous in subletics because of their motor sunceptibility and the strong dynamic moment accordingly given to such functions.

dynamic moment accordingly given to seen functions. The most frequent neural or neuroglandular exciterance that athletics are subject to is anger, aggressiveness. Though, as we have mentioned, most of them have their calm matrix, crises of "drivenness" develop on this matrix, and the crises are mainly aager or have a strong latent anger in them. The mechanisms of anger are intimately connected with such glands as the advants, supecially the cortex, I These autonomic manifercations and components of the state of anger are certainly controlled by centres in the thalamus and corpus striatum. Whether the consciousness of anger depends on sensations originating from the visceral, vascemeter and muscular changes, as Störing, James and Lange, etc., believe, or on the processes in the thalamus and corpus striatum only, as Cannon accepts it, we need not decide. One thing is very probable,

Störring offers a way familia mytho-physiological modification of the james-Lung theory of emotions in his Psychologic, p. 173. Vide also Canque, Residy Chengu, pp. 308, 308.

¹ Bertraum, Ginneh Reproduing Freezonstiry, pp. 189, 211, 198, 267, Vold alter Salvis Andring abovet the memorphicative, semi-dealistic multivation, leaving local countries of last. Kerdechner does Insertia; leaks of emutioned attitude; matter at last. Kerdechner does marriesse start Antonomysty, which desputed on a hyport-function of the gladel of the abilities (prosphilately), cellul analytics; in Sample and the production of the contribution of the production of the contribution of the production of the

and that is that sensations of tension (due to muscular tonus and tentions) are an important dynamic constituent of anger. Athletics seem to be extremely immune to the emotion of fear. On account of such absence of fear, and on account of their sensual insurantibility to emotionswith the exception of anger-they also seem to have but alight powers of sympathetic empathy (Einfühlung) with others.1 These characteristics make them very valuable socially as men led by reason and order of right paly.2 But the immunity to fear, weak capacity to sympathetic empathy and susceptibility to aggressive anger make them extremely dangerous, cold, aggressive criminals.1 The case described by Professor Bührner as a two cally a thletic murderer can, on this respect, be compared with his typically leptosomic murderer (outlined by us as Case No. 14). The essential details of this athletic case are the following *:-

Case 20.—Salter, released from prison, some evening tried to pursuade sub-driver to take hun to lonely place. Next overing balted a cyclist on a country read, first two shors thin, and excepted The morning after this a farmer tried to catch him. He fatally sounded the farmer in the mans, and field. A general pursuit followed. He was commend and a pollor official were to him with reined gained. Wrostling followed, the stabletic freed himself and those the official with his own pixtol through the heart; he short farmer in the stomach, another one to the lag, and took to flight again. His could not be sensited before he received several wounds, and one of the verse had been tone out by a builty.

Böhntet, in his comments on the case, remarks: As in the asthetic, so "also the athletic planfully prepared

* Pohrner, Menubalwiff, p. 200.

¹ Sympathy depends on the capacity to superione as caraction to exclude rate as a result of abstra-influxion (lifethrough), Joint by Sydmigy, 1929). A person who is humans to foot, distress, appeal, mainteductive must be insupable of representing those decings in sympathy with others. Another cause of the incidentity to empethous with others in the accepted agreement the productive of applications.

OLMES, ADDIEST teams on the measurement as compensation and control and according agreement of the measurement of the measureme

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his act, but his temperatures noon gots the upper hand."
"In the chase life damifically puts his own person at stake."
"There in or sign of four." "His criminal act is the arms of brutality and violence, the execution of the act unvariabled in its unabsurbedness."

A similar case is given by the Austrian authority Lenz 1 as a typical criminal athletic:—

Gase 20.—Short sentences for assault and injury to property at age of 17 and 38. In eightness the year, eightness moniting hard labour for severe physical injury to several persons with a revolver in a robbery fact. Meany institutions of effects for that. After a short person of freedom another long sentence for robbery and violent resistance of arrest. From twenty-diret year habitual eriminal. Meny robberies, assault on warder, attampted moneter of warder, murder by stabbing with a kraife, and other acts of extreme violence, are recorded sawlars time.

Lenz mentions further in his analysis of the case that anti-social aggressiveness, excessive drinking, but most ill all, aggressive egocentricity are fundamental qualities of this case.

Many of us are acquainted with the case of brutal mass-nurder in Disseldorf. Germany, during the latthalf of 1949, and the first few months of 2950. Judging from the two available photographs of this man, published in the Berlin Tageblew, he must belong to the athletic constitution (vide Fig. 37). The following details taken by me frost newspapers give some idea of this outstanding criminal:—

Case 51.—Peter Kürten. Age 46. The following grossome assums are not har known: Killed nine-pear-old girl by several knife stabs and tried to burn the body; adult max who wanted to betray lows, fatally wounded with knife stab ever-temples and neek; young women entited into Rhine mandows and absul hartmed in with a heavy harmore; prostitute women tenested similarly; five-year-old girl literally massed by knife stahs and also signs of a sexual true; two girls of 8 and 14 years breathy stables, the head



e bright compand with that of fill wife. Input lower legitized corner shows hard well lower part of his body.



Pic. 58. Spontoneous dervings, Pylini

of the one nearly torn off; entired woman into mandows. mertally wounded her with knife stabs; another woman wounded in same way; walked with a woman, asked her whether she was afraid in these days of mysterious murders. thereupon she started to run, he overtook har and struck her behind the head with his famures : one young woman he met at a bloscope, spoke most lovinely to her, made marriage proposals to her, on a lonesome road attempted indecencies, when the woman refused he got into a trightful rare and was on the point of attacking her violently when passers-by made him desist. Characteristic of his acts were the following: he made sketches and plans, which he attached to trees or sent to the police, indicating the soot of the murder and corpse; the stabs and blows with his hartamer were exceptionally vehicinent, in one case a knife could only be extracted operatively after 14 days, an forcefully was it driven home ! his wife never knew anything

about these murders.

Dalinguent from his sixteenth year; when 19 years old he already betrorized a girl who did not want to accept ble proposals, shot at the rief's fasher with a revolver! bofore these regreers he had been punished thirty-saven times-on one occasion for forty-six counts of thoft-aight times for violence. In prison intelligent, always on the look-out to escape or benefit himself. On one conston he organized a musicy among the prisoners, at the same time reported it to the authorities and helped to suppress it. In this way he was pardoned. He wery much enjoyed buying the paper in the morning so read about his own grussome behaviour. After arrest he showed extreme calmness: he acknowledged his guilt, sometimes corrected the evidences on minor details, and even mentioned a case not known to the police: "I prefer to have my head off directly." Before his arrest he moke with no zian of excitament about the meaders to his Irlend, who did not suspect him, and accurately indicated in this friend the spots where one was committed. In the factory where he worked he was also very unsympathetic and aggressive towards his fellow-workers. His motive for these murders, according to him, was : "I wanted to reverge myself on mankind." By the commission of investigation he is so far taken to be in possession of tall sunity.

In the South African case of L. P. van Wyk, who killed Turber, the blows on the shall want to violent that one of the three given would have been fatal, was Wylt in physically and temperamentally a propounced athletic

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The following characteristics are evident: Aggressive esocentricity: sexual complications 1; were little feelings of sympathy for his belpless victims.* But what I also very apparent is the cold, calculativeness, the complete absence of fear or thuidity. We shall again revert to this con-emptional calculativeness in athletics. His constant aggressive egocentricity is evident from his driving aim as well: "Revence on Mankind." The "hyper-social", "dependent", "sugacy", side seems to be in complete abeyance. Yet such features as his loving appeals to the sirl he wanted to seduce; his extreme efforts to bury the corose, to attach indicators to trees. and to notify the police, may have some perverse connections with pedantry and hyper-sociality. His culm, good relations with his wife and his friend. Meurer. are certainly slight mandestations of the "boundness" antipole to the " driven " aggressiveness; and the (atalistic calmness shows after capture clearly indicates the calm matrix of self-justification on which his apprenies crises developed. The appressive acts seem to ambadded in astonishing, calculative cokiness. Some of these acts even seem to be perpetrated without much anger, as if the non-emotional matrix remained in a coherent functional unity with the segressive violence and made the deed the more cold and grussome. As in evident from Burnke's depiction of the epileptoid personality, the pedantic agreementicity, self-instification, lack of consideration for others, constant striving to maintain the "rights" and position of the self with all sorts of meurs are not only manifested during the appreciate critics, but must also

**Compare three characteristics with the general characteristics of marcteres, and they are identified (Walesandedstr, Mitinianges for Kriss. Gauls, 1939, p. 43). **Colabilated wast dominanted Vertrandendstr, Artivitäts and Energia, Eguismes, Henneyfundlichiest und Gelishiangen, Artivitäts und Energia, Eguismes, Henneyfundlichiest und Gelishiangen, Leitzel für Franklich Leid, Beleerschitzel und Verschlosenheit.

³ Kerton's latter also gove trouble on a result of byporrowaking a contractly before the processing by framquest flowly's core (49, rd. p. 437). He will be a contractly before the processing by framework of the processing and plantly marked. It will be interesting to follow rise to anger and gheatly marked. It will be interesting to follow kitrics's case with a view to other sigms of a synchic policyty, which we suspect without doubt. Visb slam Bennits, Liebens, p. 643.

**Compare Chees characteristics with the general characteristics of

characterize the calm matrix on which the crises develop.¹ These qualities are thus important impositions of the boundness." pale as well. On the latter pole these qualities are only displayed in a more calm, self-pitying, or verbal self-glorifying manalizing manner than in the tries of driven, montrical discharges.²

26. Understied House-breaking and Stasling

Case 32.-Age 14. Convicted of house-breaking and theft with three other buys older than himself. Previous conviction when 12 years old, four counts of store-breaking. In criminal acts dissinguished himself by complete absence of fear, took the initiative, although the youngest. Father a heavy drinker. At reformatory undanned football player, will rush to the ball with base fact. The following institutional offences are recorded against him: absconded four times; on one occasion of escape he defantly broke into store same night to recover tobacco taken from him by officers; disrespect twice; gross insolence three times; that of food from leichen; melicious mury to property twice; several cattoos; fifthy served suggestions twice; smoking in public. He has now done five yours in the reformatory and serves a further sentence for three years. Sometically: Tall, muscular athlete. Would not allow me to test or photograph him.

Gass 83.—Ags 19. [1] Stoke grainical weath £5 10s. [2] Stoke starter, riding breaches, leggings; [4] Stoke case of give £1 10s.; [5] Stoke how to books £5, from station; [6] Stoke all-gun and hunch of keys. When but of books stoked, he hand a native with a cit; showed him the box, and instructed him to deliver if at his your; after this he instructed him to fathe six in the control of the cont

In reformatory: honey eater; bad-tempered, bullying;

¹ Butabe, Labebuch, p. 656.

⁹ The litterery grows of Doutstriensky was also complicated by cyclogry. It is very instructive to soot that Doutsjewowly submitted to he all classes condition with a "guidwilled-dependent"; and yet the exponenticity and breast elicitocomplectors of the applicable with regard to his fellow-brings come out as follows: Doutspendry indicend that suffering in the tense of all life, cpitings in a "murbow sumer", and he himself is therefore more than others connected with the custom of all being, he is specially malies dyids also Requested, yet he, 2.589.

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fond of bexing and sport; fond of responsibility; obscene sex talk. Institutional offences: heaving work without partnission, incolence, sweming, disturbing order in school, refusal to do his work, dismittal, etc.

My observations: Quiet, sterm in tests; likes to show his muscles and acrobastic feats; autennate during energy and displayful disposition at nonmaining pond; justice from well with head downwards justo water; always active mainly expression and carriage; ungues well for other boys in boys court—for sterms reward (as I am told). Vicious samper when insulted.

In interview: Wasted to go into navy or army. Very fond of guas, militarisms, and discipline. Quarralled with father and broke off all connections with Jun; for two years engaged at breaking in horses for a racehorus company; anjoyed the adventure of sensing, although his first aim was to take things he could use or sell; quickly left myloyen.

when differences agitated him.

Sometically: Athletic, with slight leptosomic admixture.

These cases of athletics speak for themselves. They are in line with the athenic qualities of athletics airmidy mentioned. Fearlessness and violence against persons and property are the more obvious qualities. In the reformatory or prison the same characteristics dominate their parsonalities. Especially with slight pyloric imbutures we have (ound very neckless burglace and even safe-blowers in our juvenile material. It seems as if the pure athletic (without saty pylonic admixtures) are too coldly calculative to frequently commit themselves to the possibilities of detection involved in mekless house-breaking.

27. Dangeroussess and Social Prognosis of Athietic Delinaments

As tensions (and accordingly activity), self-assertion, maniness in males, seem to depend largely on athletic constitutional factors (muscularity, broadness of shoulders, etc.), we are shored to believe that the moranal athletic is a valuable social asset. Howertheless, even within the

¹ Endo's results to movement experiments point in the same direction: "They frequently gainged the lowest wary heavily and did the tracing with excessive force," ep. clr., 300. Wife also the cases of Educar and Lans.

limits of normality, polonic or lentosomic influences always seem to improve the athletic's value for the demands of society. Degenerated athletics or criminal athletics certainly show the worst social progents of the three types. Several investigators of large numbers of criminals on the hous of Kretschmer's typology (v. Rohden, Michel, Viernstein, etc.), have arrived at the conclusion that the schize-group is more disposed towards crime than the evelo-group and shows the worst social pragnosis.1 They have, however, not differentiated between athletic and leptonomic schizon. Our own studies, as well us those of Böhmer. Lenz, seem to indicate that as far as social promotis and seriousness of the crimes are concerned. athletics are certainly worse than leptosomes. We have made a systematic study of the improvements of each of the three groups in the reformatories and found that athletic-pyknic mistures provide the greatest number of clashes with the institutional authorities. The cyclothymes are, as Kratschmer says, "troublesome because of their expressive self-feelings and their tendencies to trump up." 5 But cyclothymes are manageable with tactfulness and humour, and are "not inclined to serious acts of violence, brutality and murder". In the reformatory, the cyclothymes, on account of playfulness, adventure, impulsiveness and excessive self-feelings, are far from submissive, tractable, peaceful and conscientious citisms. The "after-materation" of cyclothymes with increase III age, however, somewhat improves the abovementioned (anits. Leptonomes, on account of their selfinsufficiency are more tructable and submissive, but in many instances unreliable (compare e.g. Case 3). In this connection we may mention an interesting result. In the reformatory at Hoomout the warden is extremely careful

³ Böhmer, sp. cit., p. 190; J. Lange, Sinfordespholtzeg St. S. p. 144; Verneticia, Sinfordespholtzeg St. S. p. 188; Mitade, "Der pryther pathiache Germalhattowerherber," in Hilberthouges for Novie, Stiff, Gerdelriself, 1928, p. 88. The the manuface Charte permutabilities of the Problem of Athletics in researce claus.]
¹ Kreschmer, Bensime for, Sink, S. P. 18.

in assigning corporal punishment, so that the number of cuts given to an inquite duting his stay ill the reformatory. is a fair index of the conduct of such an inmate. On the hasis of this we found that athletics are much less susceptible to reformative influences than either Jeptosomes or ovknies.

The contention that athletics from the most dangerous type of delinquents and are the most refractory to socializing influences is based on a broad basis of evidence. Our own material proves this indubitably. The cases given by Lenz support this contention. Böhmer's investigations on 100 normal criminals from various parts of Germany, wave the following results: 17 leptosomes. 30 athletics, 4 pylmics, the rest mixed. The only three robbers were athletics, similarly the only burgler. Only the athletics were found to be repeatedly convicted before for dangerous crimes. V. Robden thas also found that especially athletics and leptosomic-athletics formed the recidivists and the agents of violence. A fact of paramount Importance in this connection is the correlation between the athletic-dysplastic coastitution types and the opileptoid syndrome. We know that Lombroso a maintained that all crime is a sub-manufestation of epileney. We do not scorpt this broad statement, but future researches will probably show that fits of cold violence, texual vinlence, dipagmania, etc., have some connection with epileney or. at any rate, with its physiological bases such as pituitary. sella turcica, troubles. Healy gives a few very typical cases of athletic epileptoid crimes of violence. Many authorities * agree on the frequent sexual outrages, murders

Bohmer, Monarchrift, p. 28th.

Quobed by Bohmer.

Healy, The Ind. Definiquent, p. 418; Cycll Bort, The Young Divingant, p. 267. Both them northmetting admit that there is something Debryamer, p. 267. Both them archaenting admit that takes is isolarizing in Londrovice; theory, efficiency likes prefer a new gravity transformation in Londrovice; theory, efficiency likes produce a new gravity transformation between diplomable and policy of Gardy, pp. 100, pp. 100

and other acts of violence by epileptics in their "driven" states. The psychopathological analysis of the epileptoid proportions into "boundnem-driven" poles helps us to comprehend the dangers of this temperament.

28. Calus Calculators

Case 34.-Arw 19. Supplied ton bottles of wine and a quart of brandy to an Indian. Was with vounger boy whom he influenced. Previous convictions for illicit liquor dealing with natives. Unemployed loafer. Pleaded not guilty. In reformatory good blacksmith, but week scholar. Fond of responsibility, but not a successful leader. Fond of boxing. Extremely fond of a large road. My observations: usually very cake and observatic, rarely around to violent fits of anger, but when aroused he is dangerous : vary calculative and easy-going, not reliable—no recuoles about telling lies when it serves his curpose; calculatelling confidence; quiet, manily attitude; dry humour-says if he takes of his boots (for measurements) in this warm weather the doors of the room will have to be opened; takes a sentence of five years with extreme calmages: calculative and nonamotional also in his fectors Sometically : Tall, powerful, muscular, athletic tylde Fig. 29).

Many athleties of our material above this type of selfcomplacent calmacas. This boy is no easy-going and phlegmatic, that, in spite of a strong finger, he pulled a weak ergogram in our experiments. It seems as it he could hardly be excited to enthusiant or strong feelings

Indeed storm of affect, and seameless consider entitative, has many connectant when with certain bride-transmissible and subjectly reportants. (Physician and Chemotor, p. 170). Vide also Deltatoric, decime 82, p. 717. Pinds, who has stability circulars [see also Deltatoric, decime 83, p. 717. Pinds, who has stability circulars [see also Deltatoric, decime 34), who has stability circulars are one constrolled print of view, says: "In the speak and blond-throwy mendeuver (born cellulata) we often find a staysticity page help to be seen and the stability of the see of the stability of the set of the english cold. This excludes the contribulation temperature producting "(diversiblesion, p. 20). The excludes contribulation temperature producting to that of the english place.

abliefs both mirolally and physically.

I Compress with Early a findings allowed athletics; was maplicated, semi-fatalistic attitude; so appresent infective attitudes towards task; that the control of the control of

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of pleasure and emotions which could discharge into his any excitable, timid, self-insufficiency feelings which could urge towards compensatory, strained exertions. as in the leptonomes when pulling engagement. His phlegmatic disposition is due to complete, manly selfconfidence, insusceptibility to emotions generally, and an almost complete absence of sensitivity or excitable timidity. It seems as if the temperament is fully athenic. without the astheric "sting" which produces the "hyper-tension and constant offensive against the environment" of the expansive development: "the purely sthenically experiencing natures are composed and certain in their salf-feelings without pervoquees, firm and definite also in their most acutely pugmenious acts," mays Kretschmer.* The groesome coldness and calmness of the Disseldorf mass-murderer, Korten, is also of this kind. These people are very slightly susceptible to any other feelings than self-feelings, and when aroused, to aggressive anger. It is important to bear in mind always that very lew, if any of them, are entirely free from violent.

³ Eduring emphasizan vary strengly the energy contained in the physiological confesses of emotions sed tealings (Psychology; and physiological confesses of emotions between emotions and instinctive method, Seniel Psychology; and Geocott, etc., between the text and the Talkanie control (Seniel Psychology); and Geocott, etc., between the Talkanie control in the processes of emotions set sources of source; (Endity Chenga), objects like Y. H. Levy., when reaches the conclusion that nationalize processes and emotions are the main closure of mux-riser toust, provided, of correct, that well-developed seamles are proceedings that nationalize processes and emotions are the main closure of mux-riser toust, provided, of correct, that well-developed seamles are present (Yew Laire der Town., pp. 306, 472, 532, 553). We have also leaded not corporate with great control cover compared to the control of the control of

energy, viz. a contrical and sub-covircal one.

1 Serman span of the preprinting type: Solf-control; intellectuality;
macrolinity; self-matricry; sub-sub-cover; self-controls; largements
macrolinity; self-matricry; sub-sub-routed; largements
(Large-Li Heinberg, macrolinity; but sides recommens and intellectuality; but sides addition and intellectuality. The sum is a groundward intellect-centrel reprint and sides of strong regularities, with a separal mandericals, his specific is a spite of affectively his in sub-countrollect. This is strongly selfmatrix. The sum of the strong reprint and the strongly selfmatrix. The sum of the strong reprint and the strongly selfmatrix. The sum of the strong reprint and the strongly selfmatrix. The sum of the sum of the strongly selfmatrix. The sum of the



Feet. 19.



Fig. 40. Athletic was slight Lapus-some wasts. Note terms expressions

aggressiveness at times. In spite of an extremely phiermetic matrix, crises are bound to develop sometimes. (cf. also Case %). In some of them the manifestations of anger seem peach reactive -a result of provocation. But more usual is one or other inner "drivenness", hypertension, "hinck mood," ready to fall on a provoking victim.1 In some of them the cours are certainly mainly sexually coloured as in the case of Kilisten and the case described by Healy. The crises are probably all connected with pituitary fluctuations.

Together with the phlegum so marked in many athletics, all athletics possess the tendency to perseveration of idean and aims, in common with the leptosomes (Enks, Pfahler, v. d. Horst, Kretschmer)-or rather, we should say, persistence of intentions (Einstellungen).4 This quality enables them to construct and premeditate their future acts very planfully, detailedly and systematically. This disposes them not to act impulsively, but in a coldly calculative manner.2 If it serves their nurnose they can ormanize a meeting of their fellow-prisoners, only | be able to benefit by reporting II to the authorities, as Kürten dld. In our Case No. ab, the juvenule, in order to save his own skin, reported the store-breaking of a native who had served the family faithfully for many years and had broken into the store on the instructions of the lad himself. The young man, described in Case No. 33, would plead energetically for accused boys in the boys' court, only to get them under obligation for his future needs. Their calm self-confidence often impounding their parefulness. to that in some cases of cold scheming by athletics they are not careful enough about subtle details. They are a good combination of calm calculation and careless, broact self-confidence

Cl. with Delimiteh's demarkation of those acid-controlled epiloptoids, who occasionally get into a "driven" state.

" We shall still analyse this characteristic psychologically, vide

para. 47.

Bannko (Lakeluch, p. 600) mentions that quiliptics are very presistent in their obsessions, and may histour all intentions in revenue in a latent start for months and then realize it.

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Gass 35. Ages 19 years. Had a girl fill Pretoria; wanted to be near the girl and, moreover, feld a structed to the police force generally. Accordingly applied for admittance to police depot in Pretoria. Had no peissary achool-leaving cartificate; throught about a possible plan; wrote to a school for his brobler's cortificate, on shrich he changed the initials in slightly different into two the original. Under cash in court sall dealered that he did not frage certificate. Before this forcery had been discovered, obtained a chaque or request from a dealer, and signed false name in payment for land's watch, a shirt, socks, braces, soap, cigarettes treat fel.

Father states that boy is beyond control. In reformatory: extremely tond of a big must; pussion for girls: very beastful and fond of responsibility: self-wiled; schoolwill record dome some self-wiled; schoolwill record to the self-wiled self-wiled schoolself-wiled self-wiled self-wiled self-wiled schoolins whole life, and comes from self-wiled scot; be appearable to the self-wiled self-w

Some III the schemes and calculations of such selfsufficient athletics are indeed very coarse and lock the third carefulness of leptosomes. Their intrinsic convictions, however, sometimes give much force of persuasion to their explanations. With calim self-confidence and disregard of possible revelations they always try to make the best out of their case in court. They do not confess what is not proved against them. I know an extreme athletic case is South Africa who took careful notes of the evidence. He is so calm and self-confident that in a smrder charge against him he lengthed when a humourous piece of evidence was given and cross-questioned the witnessers with dramatic case.⁵

A very remarkable illustration of these bio-psychological

³ Care v. Wyk. He was executed for this number.

characteristics is amultimely given by Professor 1, Lange 1 in his studies on the Henfelder identical twins. Adolf is more six and comming most noundalment ways, prepared and creates his opportunities and desence, denies his guilt until proved, puts the blame on imporent persons to free himself. Il cold, default, mean and secretive. August, on the other hand, though very similar to Adolf, is less deliberate, takes opportunities when they occur, in frank in his admissions, does not betray his fellows | benefit himself, and is more explusive and mainbibited in court. Lanew's photographs indicate that August loans more towards the pyknic physique this steep, dome-shaped forshead, baldness, round features, shallow eveballs, straight profile), while Adolf is more athletic (receding forehead, angular profile, athletic chin, clongated aggshape facel.

Laptosomes are also very calculating and secretive; and would desire to free themselves by subterrages and roundabout ways. But their strong sense of insufficiency and timidity usually seems to counteract the tendancy to egotistical exploitation of their fellow

beings. The delinquent act of the boy described in Case No. 94 abovs, vis. liquor-dealing with natives, ill one very frequently found in these non-emotional athletics. We have hardly found a pylanic or a leptosome practising this illicit, but paying, business. One dysplastic athletic axplained his illicit isomorb-dealing at 600wes; "I is very simple, sir. I require money, but do not like to do tedious hard work. With liquor-dealing I can make money easily. The person concerned hard very few scruples about what his social environment thought of him. Leptosomes, with their sensitivity, striving to compensate, and their ambition on the basis of their fundamental feelings of self-insufficiency and finishity, usually care very consciously what the caverumment thinks of them. It is the old

² Professys J. Lenge, Forbucken als Schiebrat, Leipzig, 1929, p. 24.
³ Professys J. Lenge, Forbucken als Schiebrat.
Lenge, Eschiebrater's typology can also be applied.

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antithesis: I and the external world: a constant, excited self-analysis and comparison, as Kretachmer says. Pyknics are much more saint and do not reflect about the self-But still, pylmics form such an easy, frank, natural integration with the environment, are so and to emotionally identify themselves with their fellow-beings, that they cannot seriously diverse from the views and social valuations of their environment. Pyknics retain the inner rapport and consensus with their environment. If we analyse these cases of athletics earefully, we find neither the timed, sensitive striving for "excurances" of the leptosome, nor the natural inner capport of the pyknic. Athletics are self-contained, self-confident, and procentric. The innate experietion which accompanies every act and judgment of them renders them immuno to the critical attitude of others and, as Delbrick save. incapable of expo-criticism." Thinking and acting, intelligence and impulse-life, is a too parvowly coherent unity (Delbrick). The result is immunity to beterocentric contradictions. Incit of social secucies.

In normal and intellectual athletics this quality may extremely valuable; the athletic Haeckel was able to face the world with his doctrines of evolution and monistic materialism.3 But in crime this quality may take the form of a degenerated form of egotism and almost complete absence of scruples about what society thinks, or absence of fear for social deprecation, ostracism, etc. The dysplastic athletic mentioned above lived together with a coloured woman in concubinage for a considerable time-an act extremely louthed by white South Africans.

The absence of social samples is not the only paychological cause of illicit liquor-dealing with natives. Athletics are prone to this crime for some or a of the following TERROPIS :--

Berman, Grands Regulating Parametrity, pp. 200 and 207. Delbrück, Archiv. f. Prych. and Moreocharchia, 1972, p. 744.
 Delbrück, op. cir., p. 737.
 Hisokaid, Erani, The Holdin of the Universe, etc.. Heacked was pythologic as more evaluated higher for Darwinson than Derwin

himself.

- (a) They are frequently addicted to drink, themselves, and as such are in the liquor atmosphere and know how and where to purchase liquor without danger of suspicion or detection.
 - (b) They are able to burgain manfully with the buyers.
- (c) The calm calculativeness of this type of athletic aids him in the execution of this netherworld business.
- (d) Their egoesotric lack of acruples about the social deprecation and lack III conscientious sympathy with the primitive races whom they ruin in this way, add to the motivation value of their calsu calculations on the profit-ablaness of the practice. One arthletic of our material had a bisycie with a bug between the frame rods. Saturdays were his delivering days, when he took bags of bottles with brandy to the coloured buyers. These bottles he bought from various bottle stores, and apread over all the other days of the week in order to prevent samition.

20. Bossing and Saindlers

Burnke speaks about the "broad, completent philotophizing about themselves" in the talk of epileptic personalities.

They deem themselves better than all others. These axtremes in the clinical material have their corresponding normal character-ological forms, and in some delinquents this characteristic again takes on grotesque proportions. We have not had enough such cases in our material to judge definitely whether these qualities deview more frequently from epileptoid or from hypermanic self-feetings, and in how far they are connected with "pseudologia phantastics".

¹ In a supreme constraine a few marchinage, much an outspoken abbetion told stake about howing manay, etc., which evertainly peaks in the discussion of producing the preache with much an inner conviction that the court even believes like and released lines. (Se the measurement exist libr man, v. Wyk, tried the many remarkably convivaing 's stoire about theumand or bestef primate. He was allowed to march for them sendre carnet. Excessors to be to be he had depend any more present that the sendre calls. Presidently sens. (E. Schmeider, Psychologism), Wendell's establishment of the best by Cartinity sen. (E. Schmeider, Psychologism), Press, p. 39; Bumbe, Lebrech, p. 78; Bangle, ch. g., e.C.)

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The most pronounced cases were athletics with slight pylmic admirture.

Case 38.—Age 20 years. Stole second-hand guns from a storetonic; pot his mairer sorvator to beny them in his hut and to try and sell them to nasives in Basutoland for exces. Natives would not buy gues without armunition, so be persuaded his two native sorvates to break into a store where armunition was said. His indicated to them how to enter through the shylight. The natives were unable to get the ammunition, and thickneyou be reported them to the storekeeper, atming that he could put him on the track for a reward of \$50.

Sold liquor to natives by leaving bottles in his workshop and paid his native servant one bottle for every four bottles that he sold. In court he stated that he drank heavily, and that the lieuor had been stolen from him by the natives. Previous convictions: common their at the are of 16 : assault at the are of 18, and again shortly before committal. Very fond of speculation with crude methods. In reformatory: tasellectual and practical abilities, but very lasy and easy-going; boastful. My observations: Extremely fond of talking about himself, his past, and especially about his business transactions which were suppressful. States III wanted to get rich quickly. Rad the contract for gravelling the streets; owned a plumber's shop with nine conference workmen under him : at the same time wild stock speculations; bought 300 oxen in Rhodesia and sold there at tremendous profits in the Union: stole 200 sums from Governmens and bartared cattle with these ! swam full river to see into Beautoland in order to barier : speaks, reads and writes two native languages; possesses many hundreds of pounds in cash as well as a fine motor car, but was not allowed to pay a fine for crimes. (As far as I could appreciate, must of these statements are untrue.) Hardly ever hughs, but with a self-complaceat amile and sparkling gwes he tells all these stories. He has no scruples whatseever, and says as himself. Drank heavily in pra-refermatory days and mishebayed himself promiscuously with all types of girls ludiscriminately. Does not want to work in reformatory, he declares, because not paid for it. He is astrongly calm and easy-going: does not partake in spect or setteming. Very fond of a

In general life we have also frequently met with such boasters with primarily athletic constitution. They can

heavy mes!.

even be differentiated from pyknic hypomasic boasters. These athletics boost for two reasons: First, to mislead warmen or creditors from whom they are to receive. Secondly, they talk and moralise with broad complacence about their own virtues and sacrifices in conformity with intrinsic self-anfliciousy and rencentricity of anilentoids 1 (vide Case, 35).

With their pedantic ego-contricity these athletics seem to be incapable of real self-criticism, sense of selfinsufficiency, on the besis of careful introspection; "An apileptoid will never be able to accutinize himself critically." says Delbrück.2 The inward directedness of attention (Autism) is not common to athletics. A student of Isenselfound in his disinterrated athletics and sportamen that they were disinglined to self-observation. In daily life We have also ascertained from achietics that, though they may be persistently occupied with an objective problem. they very rarely scrutinize their own asbicctive motives and convictions entically. That is why athletics are susceptible to "broad, completent speculations about the self", even to the extremes of boasting and swindling. unaccompanied by "subjective inhibitions". Their narrow viewpoints and intolerant rigorism also derives largely from this lack of hetero-centricity. Such agocentric ideas are casily accompanied by the firmly rooted consciousness of validity. The contradictory ideas connected with feelings of self-insufficiency are derivatively inhibited from their narrow consciousness. 4 As is explained

Krunteld (quoted by Stittedder, op. sit., p. 58) distinguishes between Phantast and presidelegist. The former duper betaself, the latter Quipe the environment. Our athletics seem to be more inclining towards pseudologism in this sense, although planatusticism is also present to some extent. We see here how near the emileptoid's unceitical variously is to hysterical variety; both have the factors of nell-insertion. (Geltuersucht).

^{*} Delbritch, Archiv. 42, p. 717.
* Mocketmann, Persymbolishedshypus der Turmes und Sportlers,
Rarburg, 1941, p. 55.

Associated the secondary of the secondary of the filter of the spirituded, according to Delbrick. We can substant all the filter of the spirituded, according to Delbrick. We can substant how fissings of solitonizations and activity can derivatively labelled from consciousness all other feelings of unaccordy (Salariong). The sport was the object only indeed continuating in the solitonization.

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by Birnhaum, the lack of self-critical uncertainty adds tremendously to the personsive powers of a swindler. They are universally believed and trusted on the basis of their self-certainty.

The lack of critical self-accuting described is intimately connected with the essential characteristics of the " masterleaders" and appressive types of athletics described previously. Leptosomes are characterized by selfinaufficient retiring to a sensitive self-life (Antism). athletics by a too narrow connection between ideational systems and motorical execution, without the inhibitions of betero-centricity and critical self-acroting.1

so. Akolokies

Alcoholism is mentioned by Kretschmer as an important Ingredient of the emiroroid syndrome. Defbrück gives a typical example of a dipsomanic tendency in an epileptoid mathematics teacher. Gaupp defines dipsomania as: " spasmodic appearance of characteristic conditions, when, after preceding ill-humour, an irresistible impulse is experienced towards indulcence in insoxicating drink and towards great excesses, accompanied by, or gradually leading up to, a slighter or deeper clouding of consciousness, until after a few hours or days, occasionally after months. the attack ends spontaneously and after the intoxicants have been worked off makes place for more or less normal conditions." In this form Gaupp took dipsomania as a purely epilepsic symptom.* Bamke acknowledges the frequent appearance of dipagmania in the enileptic syndrome but does not take it as exclusively epileptoid. Healy also mentions the connection between dipsomanic attacks and the tall muscular body-build.

conscipuances, and conflicting ideas connected with feelings of insecurity

consciousness, sed Consilecting inters consected with brownings or naccounty are inhibited (Science, Prod. p. 200).

1. 200 p. 2

Our own material is too limited to permit definite conclusions. We may give the following observations in regard to our material. Very few athletics above the are of 18 years are entirely free from addiction to intoxicants.1 As already stated, many of them practice illicit. liquor-dealing with natives. Athletics, however, are not the only alcoholic delinquents. As Buroke and Kretschmer mention, hypomanic cyclothymes also tend to alcoholic excesses. It is possible that the flowing transitions between the hypomanic cyclothyme and the athletic temperament has some connection with this. But it is probable that in tunical cases evelothymic deinlers show more sensual. comfortable enjoyment, while athletics show more blind drivenness in their drinking. In both types the degree to play the here has south to do with their dipsemanic FISHER.

31. Security

With the more phone dysplastic athletic we shall still deal separately. The tall athletics of our material do not seem to have so many sexual difficulties as leptosomes. Two very powerfully built athletics (Cases 23 and 34) pretended to us during the interview that they have a disinclination to sexual relations with women of them were observed, however, to be fond of dirty nex talk and oictures of nude women. The father of Case No. 34 was also a tail athletic and had sixteen children. We very Often found in private life, and also in the families of our delinquent material, that lerge families are typical for athletics. From Cases 36 and 35, and 28, which are typical, it is obvious that athletic born above the age of E are inclined to promiscuous behaviour; and it is fairly definite in our material, that in their sexual relations athletics are very little influenced by erotic idealism. The bare physical relations, in many cases indiscriminately

¹ Some were even addicted to Dagga-making—a South African herb (Controlls indiged) with particularly clearing influences on sounciousness and helphisming of coll-hellings.

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with all kinds of women, are the central aims.1 The Disselderf murderer, Kürten, sport from sadistic perversims, had a strong physical enquality which must even have been a hereditary taint, because Kürten's father had been convicted of sexual relations with servant rirls. Healy also mentions that strong sexuality is correlated with epilepsy, and that the atrongest nex immulae he met in his whole psychiatric cancer, was an athietic enileptoid.

It is not yet certain whether the manifestations of physical sexuality of athletics in the form of promiscuous mishehavious or encessive intenanges with their own wives are due to a strong sexual impulse, or to the absence of inhibitions (such as self-critical insufficiency, lack of tender consideration for women, and of idealistic proticism. etc.). As far as our experience goes, we are inclined to believe that both factors are involved.

The athletic constitution seems to be the normal masculinistic one. We should, therefore, expect a strong development of the male sexuality in this habitus. We shall see, in a later chapter, that the athletic habitus has very close relationships with the enterior pituitary gland and its newal controls. Most authorities on endocrinology agree that insufficient pituitary accretion goes with sexual retardatoin and hyperpituitarism favours hypersexuality in the male. If becomes more and more probable that migraine, some epileptic fits, spannodic sexual ruses, dipotomania, and epileptoid crises of appressive-

⁴ Berman says (sp. cir., p. 20%): "Their embedies periodicity of the stream life (s. in Rappelou) with a transferent per congruence of its expression to the merity physical is meetine mode of grow plusflasty-centred personalities." It have temperately mode that, though pytheira and reprocures are usually stituted to one member in marriage, athletics mustly marry with athletics, perhaps because athletics are physically attracted to one suction.

attended, no one savines.

17 No field Dishupment, p. etc., etc., the bad served intercourse property with his wife all exect these times a night. He could hardly stated in the country with his wife all least these times a night. He could hardly stated during he constant disnignosition. The woman field in child thirth (her terth used set the up of 37.

18 Herman, p. 184, 583; Panda, p. 18.

Kente, Antonopie Roman Spates, Philadelphia, 1989; Berman, ob. off. : Pends, etc.

ness, are all related to fluctuations in anterior-citoitary. neuroglandular functions.1 It is possible that extreme functions of this sland, as is found in accomessaly, may seein act antagomstically on the sexuality.

12. Tensions in Athletics

It is possible to understand theoretically, how any neural and neuroelendular excitement is transformed into a strong dynamic moment (hypertensions) # the athletic constitution. The school of Incusch, have found that in eportamen of the T-type, the functional significance of immentatic images and sensations is very pronounced. We may construe it in this way, that, while the average adult thinks and imagines primarily in terms of visual images, verbal representations, etc.; well-trained athletics represent (vorstellers) their images, ideas and intentions mainly by kinaesthesic isaages, supported by slight, reproduced (" tentative ") movements," i.e. they actually act their thoughts, or think and imagine in movements. In athletics, therefore the connections between thinking and imagining on the one hand, and motor processes on the other, are extremely intimate. These connections become narrower with frequent use of the motor-system, The affinity between the athletic constitution and epilepsy is another point of evidence in favour of the athletic's FUSCEDUDLE motor regions: because motor excitability is L primary characteristic III endeptics.

The investigations of F. H. Lewy and others, make it seem probable that the torms, or static (posteral) innervation

³ Burman, pp. 383, 376, 364.

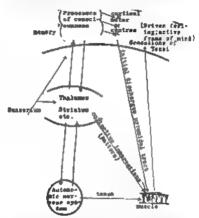
[&]quot; Mochelmann, ep ch., p. 14.

Recent invertigations appear to indicate that in all became beings Chieffe process are accommanded or appeared by "basisting marketing the accommand of a supported by "basisting marketing to the control of th W. Jacusch, Grandeler, p. 79.

Storling, Phylologia, p. 195; Bannho, Lobrinch, p. 542; Krayes-berg, ob. cia, p. 582. Lamach, Grandongs, p. 298.
"N. H. Lawy, Die Lidne son Town and der Beaugung, Berlin, 1929, p. \$1.

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of the hard skeletal mancies of athletics must be very good, because the tours of the muscle, when at rest, can be tairly well gauged from its hordwess. This state of tonus, according to Lewy, Kimiz, etc., depends largely on



endocrine and autonomic (rages and systpathetic) functions.¹ The works of Pende, Berman, Cannon, etc., seem to show that well-timed sheletal musculature depends upon the advanai (particularly the cortex) glands, and their sub-certical (thalamo-striate) neural controls. The

¹ F. H. Lewy, ap. sit.; Knotz, The Autotomic Mouras, System, Philodolphia, 1938.

tonus conceived in this way, is a yest (static, postural) state to be distinctly kent apart from gerebro-spinal movement (dynamic) improvious. The external movement of a limb, therefore, depends on two factors: the tonus (static innervation, or preparedness) and cerebrospinal (voluntary, dynamic, or alterative) innervations. The torsus seems to be largely a sub-cortical (thalamostricte) and entenemic function, while the voluntary innervation is a cortical (neramidal) function.1 But the position is not so simple as it seems. Even if the tonus is a sub-cortical function, feelings and emotions are certainly very intimately connected with the topus, the thalamostriate brain and the autonomic (vegetative) nervous avetem on the one hand, and cortical processes (correlates of ideas, images, semestions, etc.), on the other hand. Cortical processes may, therefore, by way of emotions and feelings, influence the tonos. But spart from such influences on toppe, via the thalamo-striate centres, and the vertetative system, certical processes appear to influence directly the static innervation or tension state of the muscles prior to the actual movement. Prior to the external movement, the mescles are tensioned by alight initial discharges of perve-energy along the pyramidal perves. and by collective (pattern) innervations from the thalamostrictum under cortical control. This state of tention (due to initial disckarges) before the actual external movement takes place (Scorring), is also described by Lewy as "Sparring".* The tonus ill meacles, therefore, though also connected with the thalamo-strinte centres and emotions, etc., is largely a function of the veretative zervous system. Tension, or Sperrung, on the other hand, presupposes cortical innervation, or cortical control, though here, too, sub-cortical processes (Campon) and emotions. excitement (Stirring) are co-involved (mitheteiligt). According to Sthering this mencular tension—as distinguished from souscalar torms—gives rise to sensations Lewy, ep. cir., pp. 380, 485, 434, 313; Emetz, ep. cir.; W. Janasch, Grandsige, p. 336, 386, 386.
 C. also, Lewy, p. 580.
 Lewy, ep. cil., pp. 583-5; Sthering, Psychologic, pp. 321, 223, 224.

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of tension and active formes of mind (wide Fig. 41).1 But tonus is certainly also improved in the production of sensations of tension. First, the tension (Sperrung). i.e. the result of initial innervations depends largely on the torus of the muscle; the initial discharges will have much less effect on atomic muscles than on the well-toned muscles of athletics. Secondly, we submit that Stirring's theory must be so modified that any topic or tensioned state of the masculature, he it autonomically, subcortically, or cortically induced, provided that this tooms or tension is sufficiently intense, gives rise to sensations of tension, active frames of mind, motor-urge, or "driven" feelings (vida Fig. 41). It is possible that in this respect later research may find differences in the nature of tensions in different constitution-types. At the present stage of research, the whole problem concerning the exact nature of discharges (into the musculature) of nervous energy. connected with mental processes is far from solved: Störring thinks the mental energy discharges via the partical motor-centres, while Cannon seems to eccept that the thalamus is the source of emotional energy, whence (under certical control) it is directly discharged downwards.4 Most modern authorities (Störring, Canzon, McDougail, Burnke, etc.), however, seem to agree that mental processes, particularly emotions and feelings, are connected with nervous enemy, which in some form or other, discharges into the musculature to produce changes of tonus, and, in co-operation with, or via the portical motor-centres, also mesernles tensions (initial innervations) and actual over movement. Particularly in athletics, who, as a type, have the most susceptible motor-system and the best-toned measures, any nervous discharges will produce prompt and strong increase of tonus and tension in the muscles with resultant conscionmess I tension, active frame II mind, and "driven as". Such pervous

According to Camou's theory and evidence the "left" wire or "drivenous" stay in the to happens from the their apparent.

² Störring, op. sid., p. ZEL. This translated has much in common with Washbarn's "expirally attitude" and "seasting investments." (Felling) and Edwinder, Clark, Hair., 1888, p. 1851.

discharges are commercial with all neural and neurogiandular opheavals (continue, employment, etc.). Fluctions in the plutinary functions, actile despite troubles, reactive anger, sexual waves, etc., may all of them initiate or constitute charges of neurons energy, ready to flow over into the well-tenned and assocptible meaculature.

Aithough the detailed mechanisms must still be worked out, at the present stage of research III seems probable therefore, that psychical tensions, states of "drivenness" and active frames of mind, as they appear in epileptoid crises, depend on two main factors: on well-toned, large muscles, and on neural and neuro-standular sectionment.

STIMMARY OF CONCLUSIONS

 Clinical studies appear to indicate a biological affinity between the athletic constitution and the epileptic syndrome. The pelleptic polarity "Driven-boand" as analysed by Delbrück is a niscrible working hypothesis.

2. The two poles may be in co-function as in systematic and

persistently aggressive persons.

The "Driven" cross which develop on the salm matrix
of the athletic temperament, explain the very frequent
amprovative violence of athletic delinouents.

 The manly self-confidence of athletics disposes them to undaunted criminal acts, and disregard of social deprecation.

 Agocentricity, lack of few and of social scruples, "driven." offees, calculativeness, etc., make athletic criminals very

dangerous and of a weak social prognosis.

 Calm, uncomputes calculativeness (as a calm matrix on which crises may develop) is very prenounced in the athletic delinquents. This phlagma is also manufacted in the expertained of many athletics.
 This the "bound" code athletics are inclined to a hond.

 Their "bound"-pole athletics are inclined to a broad self-complacent speculation about their own super-qualities.

This may degenerate into a type of pseudology.

 Alcoholic and served more are intimately related to the driven crises, and all these mental manifestations are probably connected with pituitary functions.

 The "drivenness" and tensions which are such important factors in the epilephoid mind, can be explained according to the scheme given.

CHAPTER VI

MERITAL QUALITIES (INCLUDING DELINQUENCY) OF PRINCES

33. Cyclothyswy

Even Brunke who believes that echisothymy is an ingenious, but novertheless artificial construction, accept the cyclothyme temperament as a valid constitutional type, differing from the constitutional mental disease of manic-depression by degrees only and showing a biological affinity to the pythole habitus.\(^1\) We may rest assured that cyclothymy and its biological connections with the pythole habitus is accorated by almost all modern psychiatriats.

The cyclothyme temperament has also a polarity, a rungs of proportions, like the bound-driven proportions of the splitptidd and the sensitive-odd proportions in the schizothyme. The diathetic proportions of the cyclothymes correspond to the psychotic extremes of mania and decreasion. Existence gives them as :—

"Cheerful, humorous, iolly, hasty "

for the manie side, and ;-

" Quiet, calm, easily depressed, soft-hearted."

for the depression side.

In addition to these proportions he gives the fundamental marks of the cyclo-temperament as "Sociable, goodnatured, friendly, goods".

If we compare all these qualities of the cyclo-temperament with the epilepto- or the schio-temperament, it is obvious that the latter two are socially seach lets desirable

Burnke, Lebrheck, pp. 257, 204, 200, 467, 758; Debrück, op. cit., p. 714, pats forth the argument that if a number contribution is possible in cyclothysay, if attourages us at least to look for one is whisthymy and episptolicy.

than the first-mentioned. To a large extent we shall find this fact verified in everyday life and in insasceptibility to serious criminality. But, as already mentioned, *Kretschmer seems to favour the cyclotiquees unduly. We shall see that, especially under the hypomaniacs, we find many undesirables (such as self-feeling querulants, lary enjoyers, etc.) who are amosthed over in Kretschmer's depictions.

The disthetic proportions of exulted-depressed may in some individuals he more marked at the exalted pole (the hypomaniacs). In other individuals, as Kretschmer indicates, the exaltation and depression may alternate in successive periods of various durations, or, as Thalbitzer maintains, the exaltation-depression may be present almultaneously, but with reference to different aims or objects.4 In still another group the depressive pole dominates. In our own material we have hardly found a single pure deprenaise. But we shall shortly refer to some cases described by other investigators. The maniac pole of the cyclo's seems to be, both sometically and psychically, psarest the athletic's which we have discussed. Therefore, we can conveniently start our exposition at the extreme manic pole. We may here again refer to our Triangle of Temperaments (para. 58) for a clear compention of the gradual transitions from athletics over hypomanic pylmics, to depressed pylmics, and from these to leptosomes again. In a special chapter on the physiological bases of these types we shall endeavour to show that such a scheme can be supported by many facts in peuroplandular researches. These interpretations are, however, II the present stage of research, very tentative, but could nevertheless serve as a working school to be modified and completed by later researches.

 Masters and Buillies; Quevelants; Chalaric, Aggressive Self-feelings; Impulsant, Fiory Tomperuments.

Case 37.—Age 174 years. Bought following articles in the manner of grandmother and sout with whom he had resided

Plabler, System der Tygenlehen, p. 160.
 Thalbitzer, Evetien and Jammily, Landon, 1606.

for ten years previous to his going into enquipyment two years ago: ladder favon for, f1 f0s.; holies' shoes, se. 8d.; gents' shoes, hosa, ties, shirts, khizor, and tranc cutfit, total. f8. Hired car under take pretendons and drove 127 miles with it, returning after modelight. His fasher, also short and storely built, had had treathle with his stother and was divorced. Boy wayward and gives mach trouble as a disobedient, aggressive, quantulename child. Fraquently changed work, because fichle and quarrelsome. Previously convicted for franch on them conscious. Very cruel to animals

when younger. My observations: Terrific, sollies self-essertions, repeatedly salect me and teachers to get tabe a good where hard work and iron bers could isolate him from the distracting ownide world. He detests the interference of reformative officers, and the provocative semi-freedom of the reformatory: says has admittably decided to everage funnel instance in free the result of the reformation of the refo

Somatically well-built pyimic; pacelier feature being heavy fit-accumulation on buttocks (compare with dysplastic cases fo and 61).

Case 38.—Age 18 years. Two convictions for housebreaking and theft; one for theft of mosor-cycle. Committed to reformatory because repeatedly absconded from reformative hotel, where he was certified incorricible.

My observations: Self-asserver type, unaympathetis expression; fairly sessions doring interview; fond of sports, quide, tempered with selfows, obstante self-selfing in letters; very self-willed and strongly refractory to forceful interference, e.g. in sebigon, parental control, etc. Somatically a pylatic with athletic admirature such as long lags (vide Fig. 44.)

Case 33.—Letter written to his mother by a well-built pylanic of 15 years: "Durn mather, just a lew lines to let you know that I awe still quite well, hoping to hear the same ton you. Rothen, you must give we an job somewhere, it is high time that I have left this achool and started work. You must answer my letters in future, and let me know have you are going on. I always let you know how I am getting on, but you don't think of letting me know anything. You know sat feel as if I cought shoot myself this moment the way you treat me. A person would think I was a dog the way you carry ou with me. I am going to try to find a job myself

and if I do got onte I will go may wan wany. None of your most by and stop me become that one will have to stand, the consequences. Before I give a pentry sway I will drink it out the same as my own dear father did. I know that you often think that I can go to hell for your part and I will too. You need not get to se a work if you don't want to. I ant not hard up for your money. I will easn my own one day and then I can do as I like withit the drink it one or waist it is notice other way if I like. That like. C his stepfather) thinks he has a big one that can work for kim one day, but he is very tujetaken. I would see him in the hot world before I would give him a farthing. I am going to start Gousces is on noterious criticial) startes one day and then we will see who can be been zee or the read of the family.

I remain your haited son

P.S.—Now you will feel what it is when your son is sitting in hell. Give this letter to that Mr. C. You brought me into this world and this is what you do to me sow, leaving me to find my own way in this old world.

You must not get a fright one day when you get the tiding that I have shot sweet!. It may be this your."

This boy is very boardal and naively assuming, even towards his teachers. On his release from the institution, he went to his lather, quasivelied with him and his nitepmenther very disrespectfully, squandered his memery, out of stay in any employment. His brother is very much the same build and temperament, and his father (same build) has been repersedly convicted of assessing.

Thatolitzer ways: "This expansive anger ill so usual in mania, that it really belongs to the standard type of mania." In his analysis of this variant of manis, Thatbitizer shows that it is a mixture of unpleasure directed on some object, and pleasure connected with "the idea of the angry wan himself und his position as the person who is is the right and who, therefore, can think himself as the superior party perhaps punishing and chastising." This self-lecking is certainly the main spindle around which everything revolves. The following characterization—according to Thalbitizer, reminiscent of mania—is essentially true of our class: "Bad-himmonted, patient with

² Thelbitner, Emotion and Jenevity, p. 68.

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his delight in contradiction and criticism and his inclination. to annoy, irritate, and plarme those around him." Burnley also mentions these hypomanine operulants. "professional brawlers" and "quarrelsome scolds".1 They seem to form flowing transitions between the hypomanic disposition and the paramid quarulants. These transitional types are not so south paragoid oppoulants as what Klur a calls "altustion-querulages". The theme or situation about which they quarted is a new one twent time. They resemble the child between the area of 2 and a years who bumps with his aimless willing and strong, nalve self-feelings against numerous and varied limitations imposed by the environment. The hypomanic operulants have the high, naive self-feelings and the lively activity of the hypomanic disposition, but they may also reveal an additional (epitepsoid ?) characteristic usually not found in the typical hypomanics : they are to a large extent incapable of respection the feelings of others. This is in conformance with Keetschmer's contention that such querulatoric evolothymes are constitutionally mixed. Our own cases show athletic and dysplastic admixture (vide DEFE. 441. In private life we have met much a " professional quarreller " who suffers from dipsomanic crises and reveals himself to his neighbours as a loud, overbearing disputer. He has a real pyknic body, fat belly, short neck, broad lower face, but with the following admixture: Broad shoulders, fair muscles, heavy long eyebrows, and a medium. skull circumference which renkes his bend alightly towering from the thick neck and fat from lower face upwards. They seem a be pyknics with a fair amount of athleticdysplastic admixture frefer also Cases 60, 61).

But these cases are so near the manic group that they

¹ Dem.hr. Germann der Geistigen Genmenfleit, p. 17; Lebrichett, pp. 1623, 7528, 542; Kurleichter, Flynnigen und Cherochte, p. 1596.
² Bombe, Lebrichett, pp. 163, 546, 562; Germann, str., p. 12. V/de alas Natuschmer, Had. Fryck, p. 165.
³ Safestigeleiting (1888), p. 161. Vide alan K. Schweider, sp. etc.,

⁴ This case, however, was also very difficient of a physical defect (rupture) which may have much to do wills the infeperment. Bunke, Labrack, 300, 342.





should be classified under the cyclothymes. Most of them are, as Kretschmer says of the pylonic, hypomanic accressives, "relatively humbers," "tractable by means of humour." "constitutionally sociable." In fact, in some of these the apprentive crites form isolated reactions in an otherwise attractive behaviour. Such aggressive crises are then usually due to sufficient provocation. They are stimulus-adequate, aggressive reactions in a waveform. In these mactive crises, as well as in the more querulatoric hypomanic attitudes, in fact, in all cyclothymic behaviour, the following characterizations by Kretschmer are admirably illustrated: "lack of system," "poverty of systematic construction," "lack of inhibitions," "hery temperament," "well rounded, wavefike, natural responses." "when anything gets in his way he sees red at once," " cannot swallow his indignation . . . for that reason be bears no malice." brooding intrigue and deferred revenge are foreign to him.3 It is in this respect that the typical hypomanic syclothyme differs from the epileptoid who, according to Bumke, resorts to knives even when the provocation lies many months in the past.* The cyclethume flares up suddenly, makes an impulsive row to attain his end, and is soon pacified. These impulsive rows may take on very drastic forms, however, and are a hypomanic characteristic which figures very largely in studies on criminals.4 The following cases give some idea

Dostycha fur. Zeit., 33, p. 285.

³ We can compare the evoluthyme comperamentally with early childhood. All the characteristics mantisued above remaind one of the child's first wilfulages (Eystes Trotselter of Ch. Bubler's Sesimieles des Jugondichen, pp. 45, 100). The child begins to will without having a defails aim to will, therefore Cb. Bubbs calls it "purely formal aimisse willing"; of the child's quereshome unif-votings at the age of 2 to 3 years: "A strong anti-unial wave overcomes the three-year-old. Jyakar: "A strong and-secon wave seconds to likely plat-day for can be instead towards everywhere, this return whiten see will know be found to the control of the control

cyclothymes.

^{*} This hypomenic explosive sugar in vary well known in studies on criminals. Opening Knyladomy, et. cit., 31, p. 785. Klog,

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of what may happen in a delinquent cyclothyme, when he rocks est of his customery, confinctable enjoyment, or jovial, naive self-feelings into an aggressive reaction on provocation, and then back to munuality:—

Case 40.-Age 19 years. Convicted of calculds homicide on his father. Father a heavy drinker, wasted two farms in this way. How, eldest child, tried to keep finances going : reported his father's drunkenness to his grandfather; this annoved father: grandfather openented father with a new furm on condition that the drinking should stop : father submitted to this for some mouths : then suddenly exchanged his whole wool-clip for drink, he arrived home heavily intoxicated, quarrelled with sister of convicted who theremon threatened that he would again tell his grandfather; boy went to his room to get possession of gun because on previous intextications father had fired on natives, etc. : father called boy, the fatter refused to come, and instead threstened to shoot his father If he came nearer to him. Father approached, dressed in his shirt only; boy became very anary, shot father through stomach. On seeing father drop to the ground he selt very sorry, prayed in his room that father might be spared, seported himself to police, stating that he did not know what he did when he pulled the trimer.

In reformatory: wolers waves of anger when sufficiently provoked, otherwise a pleasant, sociable, humprous disposition; excalers work in blockswitch; shop and school; grood prognosits; frank and manly, marker-of-lacer attitude in tests; humanorms redvides in boys' dashes; yeary saws and frank in measurements and photographs; affective letters to his home; heartful refigion, given to mischler-making; liked by the boys for his gift of ministry; lond of girls, and king in wearing; generous towards fellows. Somatically: pyknic, but with fair amount of muscles on aboulders, arms and let-

क्षामा आव स्ट्रिहर

Case 41.—Age 13 years. Stole 2s. Iron a fellow in an orphanage, Repeated attempts to escape from the orphanage, escaped three times from previous house of sedage. Previous total stole two times of sum from a stone; standard large quantities

Subjetschofeling (1882), p. 201; Wiscottein, Sinfonsisjentrag (1887), p. 29; Paper, ep. et., p. 25; K. Schmidter, Psychopter, Properio, p. 32; in normal psychology Euler has famul very impatient and quickly augerd (op. 461; pp. 300, 259). Japanes multiplates the same of his betype (Grandelige, p. 1883). Lette, Grandelics der Kieie. Biol., 1887, pp. 177, 198. of eigarettes when obtainable, stealing muscy to buy these. When locked up for misheluwisem, he hoceme victions, tried to fetce door, had to be gateriled night and day until pollon took charge of him. In reformatory occived fifty-rise cuts during a period of three years, mostly for excessive smoking, false statements, distributed, and theirt. During investigation, showed disconsients are in meralling to be tested, but afterwards became more socialists. Is very easy-going, and the type that will subservance in constant, shirls from work, and show gross insolessor when provoked, than try conscientionally to care hodges.

Somatically: pylmic, but fairly long some and fair musculature, indicating athletic admixture (vide Fig. 42).

The first case, in his normal periods, shows the pleasant, sociable, renerous, and active disposition which, according to Kretechmer, in much more frequent than the melancholic variant of cyclothymy. But when his environment provokes him, "he sees red," he gets blind with anger and reacts impulsively. Immediately after he carrets his act, shows real sympathy, and tries his atmost to correct his misdeeds.1 One of our "hery temperaments" was an easy, sociable invenile who, on request, described to me many of the temperaments of his fellows in a witty and masterful manner. With remarkable, calm boldness, he stale food for his starving mother. But an certain occasions when she provoked him, he swung into violent states of anger and fired several shots at her with his revolver.4 He remembered worv little about these, when the storm was over, and he then assumed his former kindly relations with her.

The second case given above belongs to the " comfortable

¹ Compace with Brandwis descriptions of the hypometales, Labrhead, p. 283; is as Segment-polaring (1982), pp. 29, 29.
² It is important to mote here that PicCompall (Noticed Welfers and National Description), pp. 80; 199) instantion the Newpocky of crimes of violence—especially hombide—especially hombide—especially hombide—especially hombide—especially hombide—especially hombide—is supported to the natural tent in the northern rate (compace also E. R. and W. Jeansch's investigations). McCloogall aspains the designment of the motion instantion is caucie, on the basis of the racial characteristics of the words, "vividious, quick impression, and rappairs," history contains the compact of the words. "vividious, quick and impression, and their conditions black on the basis of the racial characteristics of the words." vividious, quick and impression, and their conditions black on the vividious proposes that the entitless asset are more purpose to force that to divoce as a mance of anyther muchal infinition words.

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enjoyers" in normal times (iam, smoking, lazinges). When treated with force, he does not "swallow his indignation " but in one moment disburses all his credits by disrespect, insolence, or a forced escape. This is one I the reasons why the cyclothyme delinquents show an unpromising promotis if the number of institutional nunishments is taken as a busis. It seems as if the must experiences of the modescant consumences of such acts have very little inhibitive influence. The present, aggressive amotions take complete possession of consciousness and derivatively inhibit the already week perseverative influence of past experiences. Persistent intentions (Einstellungen) according to Kretschmer, Enke, Pfahler, Skawren, and also in our own experience, are very rudimentary in cyclothymus. In terms of Hoymans and Wiersma this would mean that cyclothymes of the hypomanic variety are primary and not secondary functioning.3

As can be expected, these "labile moods", " "the quick temper", "salve, impaire esti-feelings and self-sufficiency", sminhibited candous when provoked, and lack "of long-thought-out purposetulness, systems and achemes", frequently make them changeable and fickle in their work as well. The slightest friction with an employer leads to explosive reactions and a change of work. In this way the conditions for a rolling-strons, want of employment and sooney, and, accordingly, for delinquency, are easily created (wide Cases x and 43). With the quicksliver-fressperament leading to frequent pattry rows, are cossibined other tendencies which encourage the frequent change of work; Kretschsser says of them. "Daring, not very carefully chosen undertakings and almost naive divergenced for tact and providence." They

1 Physicar and Character, p. 121.

¹ Re-clited III Hoyamans' "Gen. Histoner Schriften", Sparlette Physiologies, pp. 189, 415, etc. Valle abox Bengman, Middelets and Repripher, Genninger, 1962; T. J. Happ, Resubstantiate re-Openching, Perciosis, 1972; "Wiersman, Zeitsinber, J. Ang. Physiologies, 26, 33, p. 146. 'The isbite monds are emphasismed and one of the bards nursing qualities of the Integrated on R-type of Jacomsk, Genninger, 147, 204, 322; Ocent, pp. 4, 195, 185.

resemble an alternating current as compared with a direct current, as Oeser puts it when he compares the B-type with the T-type.1

The central quality of these querulous and fiery temperaments is the extreme athenic self-feelings. These othenic self-feelings correspond to those of endeptoids in certain respects. The enalogatoid, we saw, is incapable of critical adi-scrutiny. Even in his economicic, sucury philosorbizing about himself, and in his moralizing, the athletic lacks the real self-knowledge. The sharp entithesia; "I" and "the External World"-" a constant excited self-analysis and comparison" accompanied by selfinsufficiency feelings is mainly found in hypermythetic leptosomes. Accordingly, the "ego-consciousness", "g knowledge about the self" as contrasted with " a feeling of the self" characterize the leptosome more than any other type. Cyclothymes have "self-feelings" and not so much an are-consciousness." no share distinction between 'I' and the outside world, but a life in the things themselves," "giving themselves up to the mood of the milleu, swinging with it and identifying themselves with It "." with an " almost Judicroes conviction of the value of their own personality". The hypomanic's self-feelings are "nerve and childlike". These solf-leelings differ essentially from those of the achietics in that they are less coldly calculative towards an aim : less persistent in aggressive intentions; and less pedantically sugary in their verbal manifestations. It is true that many hypomonies in their food aggressive reaction-waves, may be termorarily blind to the rights and lockings of others. The high sourits, sexual intermerance and apperficiality

Ocean, Zaittakrift f. Psychologie 182, p. 228.

^{**}Open, Assistancy P. Anythologie 112, p. 225.

**Placy active received respiration this matter, distillate normating, and Placy active received respiration of the property o but a feeling of the seil, a welling the himself."

Physique and Character, p. 139.

Branke, Labrima, p. 348.

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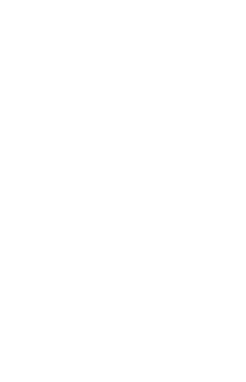
of other hypomassics may, as Werniche maintains, prejudice their capacity of sympathy and consideration very much. But our experience conforms with the views III Bunke, Kreischmer and others, that the real hypomanic constitution, without epispoind constitutions admixture, is characterized by salve, childlike good-nature. Even the aggressive, operations and cholence persons discussed above, swing back III normal phases of sociable good-nature and hummor or comfortable enjoying. We shall be on good bindged and psychological grounds, if we contentify compare the hypomanic temperament with the sarly childhood period with ussenfective self-fedings, nature withfulness, labile mooth, impulsive reactions ("Erstus Trotsatler" of Professor Ch. Bütleri, but also with natural social-nature between these neactive areasting.

35. Love of Change and Advanturs: "Rough wholehaggers"; Undanosted, marglective giving-themselves-upto-the-wids world; Labitity of Monde and Attindox; Gavelentes

This is also a group of evoluthymes nearer to the manic than to the depressive pole of the disthetic range. We can see that this group II intimately related to those discussed in the previous paragraph. The naive selffeelings and disregard of tact, prudence, and tong-thoughtout schemes of perposefulness are common to both. But especially the naive optimism and unreflective, high spirits still to be discussed in succeeding paragraphs, are very important aspects of this most. On the somatic side, we have found as well, that all these hypomanic variants have slight athletic components, such as fair muscularity, well-developed chest, fairly high chin, broad shoulders, fair body-height, etc. This may indicate that the sthenic qualities found in hypanismin and athletics depend on the presence of athletic constitutional elements. The evelothome fundaments (such as sersité, sociability) and the schizothyme fundaments (such as perseveration of

Burake, Lebebuch, pp. 205, 368; Krutzelman, Physique and Character, pp. 135, 246; Dentacle for East, 33, p. 705.
Bus Schedulen der Jegandichen, p. 100.





intentions, "aocial distance"), however, with which the sthenic attitude is alloyed, lead the sthenic behaviour a different stamp (Gepringe) in each of these syndromes. Especially in the present group, athletic components could always be demonstrated (vide Fig. 43). The following cases will illustrate our contentions:—

Case 47 .- Age 182 years. When 17 years ald convicted of theft under take name. One and a half years after that. theft of money, foundain pure, etc., from a flat at Durban during midnight, from door in the face of the oursury. tried to so down fire escape, was accested, and pleaded mility, but asked permission to change from the evening dress he wore. Two other convictions of theft of money. etc., from flats during same time. Committed to reformatory. After eight months escaped in broad daylight by puthing a dirt-cart to the dict-been and then bolting off. During the interview he told me with pleasant enthusiasm that at such narrow escapes he " gets a cold feeling on the cheeks, and feels electricity in all his limbs ". "Oh, it is simply slerious to fly before them." He walked from C.T. to Pantl, where he obtained employment on a fish cart. was burt, but his amployer refused to call in medical attendance; in agony of painful arm stole employer's purse and returned to (With wounded arm stole close on £100 from flats: "End of month and fote of cash flying about," he says. Went to Johnes, five counts of their from flats, some in broad daylight when owner of flat in cale below, or in bathroom; others at midnight while owner asleep. On one occasion owner woke up, "showed thirl and nurderer and God knows what all." Accused jumped through the window and landed on a root 20 feet below, buil-stunned he crept through a window into a room, "heard a man enoring and a watch ticking," felt about and got a heap of bank-notes with which he ascaped. Says kineself, "A Rolls-Royce life and a Ford salary." " the money did fly, by Gosh it did." Very lund of cafés and cabacets, with selected girls. When his sexual impulse runs high in a commutic situation, he has no ectubles in satisfying it. Enjoys the adventure of his narrow escapes very much. Very boastful to his fellows about his past deeds and his sexual excesses. Save: "I have had some narrow escapes, some hard times, and some high tides. I have slept on the floor of the Rumbius with a newspaper over me, and at the Carlton Hotel. I have more for days without so

¹ The Rambhou is a specta predicat; the Control Hotel is the largest hotel in Johanneshing.

much as a cup of coffice, my belt tied in to the last link; but I have also stolen tous of money in one night." In many of his fast bunglaines he left the clour open to show that somebody had been unside. Always leaves the silver behind, as he stay, for the man to buy food with; and after a "fat apoil" gives the Salvation Army a few shillings to ease his conscience. If he has relong, he never sends a beggar away, "known what it is to be permisen." Ill reformatory very refractory to good order; in my presence, when asked by

the weedlevok officer where another buy was, he spacetral, "He went out of the shop became he did not title the small of enjoins." He does not wind guanthetene, but in supported by all the paraphenals in commercion with it. Says he had anne good intentions formely, but "for the present, hang it all." In his better, very self-succine; as ye he did not stag his name chrough the mud, but changed it. Tells lin, hoya' court and cheeky when reprintantled, Witty, hoyah, solf-feelings. Says all his late to obtain forbidden. At swimming pond, rash overhead diving, more rockless than necrosis.

Somatically: A pyknic with slight athletic signs in musculature, breadth of shoulders and height of chin.

This case is a fairly typical hypomaske. The following qualities are ourstanding: Undeanted flat expert; makes a joke of danger and narrow escapes; no scruples about saxual intemperance; naire and definant disrigard of tuct, prudence, and long-thought-such schemes of purposefulness and consequences; social attitude; a certain amount of good nature; extreme self-seelings making him refractory to disciplinary control, however?

Case 43.—Age 38. With two other boys (vide Case 14) stude motor-car. The arthetic leptosome (Case 14), who had arranged everything, wanted to look for work. But this pylanic only wanted to have a good time away from house Al home he was a bully with his people. In reformatory casy-going but will occasional angry roactions when provoked; a violent temper: stands for his rights in boys court: in interview explained that his lowe of a change and quick temper had made him change employment five times

² Execution examples—nametimes introspective reports by highly understed patients—of the real nature of hypomenic self-fedings are given by f. I. MacCardy, The Psychology of Emotives, London, 1925.

already; is secret punishment by taller boys for talk about abscending, he jumped in first and received the severest belting.

Somatically: a well-built pylonic.

The love of change in this case brought about loss of work and then of a car. Lens" gives two examples of pyknic crimivals also with a pronounced love of change of occupation. The only occupation at which one of the casts of Lens remained, was gambling and swindling (Bauernáng), a line wherein change of situations and partners is a daily matter. These are the temperaments Kretachmer speaks of as "wild man of the world, a glutton, a gambler and a debtor", and yet, "a man, who lived and let live," "unscrupatious." "boisterous passion," changes he, ficklesses, "unshockled natures," "tendency to superficiality, tactlessness, over-cartimation of hisraelt and exclusioners," "impulsive also-dash, before as quick-citileter." "

Cast 44.—Age 20 years. With two other boys stole motorcat in front in Justice station interctionally, hobo into a store-from and stock 24 gations of perrol, 12 containers, and 4 gallons of oil. Masterlo ngo for a feer days' joyride for advanture, etc., and then to cetum the car. But thay completely forgot their intention to change the number-platen (compare with Core 34) and were atreated 50 oiles from start. Was sent to indestrial School when 12 years old, absonated from this school right items. Addicted to define occasionally, 1844, gnutrahea when committed to referencery. In reformatory: Sexually very excitable, many rations of nucle waters with sex parts accordanted, cheerful and hypomanic in his work, good progress, but extremely quickly discorregred when tasks give dight difficulties, then sulks. This lock of persistence, especially in mental tasks, made the impression on une of a sultier temperament at first.

¹ Greathirs & Airine Reaf., pp. 176, 189; Enke also found in psychochemical experiments that pythoms are cause invastiont and quick to give up a tool, it repire of the fact that they start with a world of optimism. The same was found in the sports performances of the D-type to Mickelmann, pt vis., pp. 36, 38. Vide also, Hollmann, Anfront, p. 106.

**Physical and Chameler, pp. 132, 803, 243; 221. According to photos, performing the control of the property of the propert

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but at swimming and spurts be showed much energy and enthusiastic cheerinhess; talkative, socialise and cheerial with fellows; on chest tattop of a ship in full sais indicating his desire to travel; impulsive and unreflective when in company; absconded from reformatory as well, pretended to be ill and, choi in his pyjumas only, escaped over the roof.

In this case the unreflective giving-himself-up-to adventure and to the wide world is the direct cause of his delinquent abscording and motor-thieving. The Instability in tedious exertion is also very obvious: difficulties oulckly give rise to unpleasant feelings. Enke has demonstrated experimentally that pyknics frequently grow imposient and quickly relinquish a task after some fruitless trials.1 This is the more striking if one considers the boundless, naive self-confidence with which they begin. The unpleasant feeling-state which develops when tedious exertion or difficulties dely the pylonic's naive self-feelings, even retain the hypomanic self-assertiveness, and manifest as a defiant, negative altitude. In some cases, however, a slight undertone of real depressive feelings ill reported by Kretichmer in hypomanic temperaments. The lability of emotions and moods, either from enthusiastic, enterprising solf-feelings to defiant, angry self-assertion and back again to paive, pleasant self-feelings; or from naive exaltation to sudden depression and back again, is a fundamental characteristic of the cyclothyme and of the corresponding type of the Jaenach school: B-type or Integrated type. We have often quoted Kretschmer, and also described typical cases to prove this lability of moods and attitudes. Kretschmer frequently mentions the "labile mood basis", "quick-silver temperament" when he describes the hypomanic, i.e. the more common pyknic variant.4 Jaensch fully agrees with this in his depictions of the B-type : "Labile and fluctuating moods," "quick-

Enke, Zeit. f. Aug. Psych., Hd. 28, pp. 263, 251, 258.

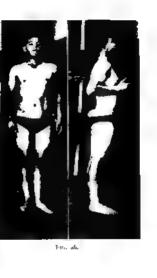
² Physique and Chauseler, pp. 129, 128. This hypomatic variant of the pykaics, which accussing in Keetachaner is stuch more control than the melanchetic variant, could theseline composit to the choleric type of Neymars and Wiccopus (pp. cit.), i.e. the "cambiosal, primary-particular, actions of sellow" contributation.



has zu.



but, 44. This as well as Fig. 45. pages the going leader physique type.



silvery." "quick mood changes." "high waves which are quickly smoothed," and do not manifest " the enduting after-effects and summation of stimuli." of the T-basis.1 The cyclothyme's changeful moods correspond to his lack of persiatent (i.e. perseverative) "intentions" or attitudes (Einstellungen). With regard to the mental processes of the hypomanic, Kretschmer says: "Here come out particularly clearly, the lack of system, the way in which he is conditioned by the moment, his childlike abandonment to any impression that is fresh in the mind, to any new idea. the want of judgment, insight, and arrangement, and the consequent lack of construction and absence of guiding ideals; abnormal vigility of interest combined with very little tenacity "." Their overt behaviour as well as their monds, images and ideas change either on the basis of emotional and associative connections or as a result of momentary internations (harmony, identification) with the environment. There is a "poverty of systematic construction" and of "long-thought-out purposefulness". on account of this. That is also why they have the naive, quick, and natural adaptability to new persons and situations, and look she persistent, revengeful intentions which, in the case of schizoids and epilontoids, may be carried out after a latent period of months.4

From these considerations it is obvious that as Kretschmer says, "Mond is all-important, reflection is reduced to a minimum" in the eveloid remorrament.

⁴ W. Tamech, Grandciae, pp. 145, 264, 165; Oesec, ed. cst., p. 147.

W. James, armostage, pp. 183, 288, 180; Ceser, ap. cer., y. 147, 199; jaga and Champetry, p. 135.
 Mockelmann, op. xd., p. 35. Oeser, pp. 147, 188. It is remarkable between very similar—often identical words—the depictions of the Jacosch and Kretichner schools are in these fundamental qualities.

^{*} The throny of Kretischoner is very antecestingly verified by Professor Lange's tradition on identical twins (Fasteration on Schoting), 1828, p. 30), without Professor Lange's knowing St. His Neufelder twins, though very willion! Proceed to sign! differences; Add Secretary to the control of the sign! differences; Add it coper dr. raming, will roundabout ways creates opportunities, he is odd, medic levelvilla August rollects less, takes, an opportunity when it cames, in court explorive and unaballistics, dr. Lenge's photography, do. indicate that Add its sware diss mathetic, (box, you'lled) while August least towards. pyknic (roundness of face, shallow sycholic hald head, done shape of forthead).

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Violent changes of mood or emotions 1 characterize the cycloid, as compared with persistent tensions (motor drivenness) of the enderstoid, and timid excitement of the schizoid. The cyclothyme may, therefore—just as the corresponding B-type of the Jacusch school-be described as "emotional". This "emotionality" signifies susceptibility to simple feelines connected with sensations and images, and to emutions equerally, in so far as emotions consist of ortanic sensations plus accommonsing affective tones, and differ from the simple feelines in decree mainly. In physiological terms such a sesceptibility to these feeling-states corresponds to what the Jaensch school describes as "vegetatively stigmatised". Jaensch explains that in this type "the vegetateve-autonomic nervous system in all its parts is hyper-excitable ". The expliability of this system (according to Jaensch, Störring, Cannon, etc., intimately connected with emotional produces the B-type's "integrativeness"-i.e. tendency momentary complete harmony between the self and environment, and complete harmony between the momentary functions of the self. All functions of the self : sensations, images, intentions, movements, are concordant (in harmony) with the momentary mood or emotion. Separtions, images, intentions, etc., antagonistic to the momentary feeling-state, either change the existent facility state or are themselves inhibited from consciousnate by the all determining feeling-state. It works, as Rivers

Stateman, Unphylichard Leonore, Phrantin, hav unched sell & Hooty instructing to which remotions and disaple lecting, are may chance of the deleting study for plant research? Emisters are twee valient changes of the existing mond; generally as a usuals, of deem fundamental or interdisal attitudes bring brought into function. Simile lectings are slight changes of the existing mond, assumpty occasional by images are slight changes of the existing mond, assumpty occasional by images.

or mensions simply.

1 Springs through of mentions in that they consist of separatic measuring, tensions, sectionest, + affective tones which accompany three sensations. It also scopel-beeing anxionomystic generations of tests, etc., and images, or also sowethered by suprimiz sensations, etc., in the test accompanying effecting tenses (Psychologie and Edwardstein Springshieldens, Born, 1915 and 1867). Cansum's through it that ensetude and simple (selling detect from purposes in the thalmans where the highest automoric centres are benchmad (Breitly Changer, 1923).

W. Jessey, Gennaleine, pp. 322, 348.

explains, on the "all or none" principle.\(^1\) This gives the queer blindness, one-sidedness, superficiality to the emotional person. And it is on this basis that evelothymes do things for which they are sorry : undertake tasks which are super-humanly dangerous or impossible. Their minds work with successive moment complexes ("integration products "1,3 each such complex being a firmly coherent unit by itself, but without strong "intentional" connections between the successive complexes (compare munic flight of ideas). The succession of such moment complexes is relatively strongly determined by the very primitive mechanism of association, feeting-connections, or environmental stimuli, while the schizoid's succession of contents of consciousness is relatively strongly determined by intentions fattitudes. Einstellungen. " perseverative ideas ">3 That is why the cycloid is much more able those the schizoid, to adapt to, and even it desire u rapid change of situations. We should, as already stated, always compare the temperament of early childhood with that of the evelothyme. Isenach has already repeatedly shown that the B-sype corresponds to an early childhoud phase.

3b. "Johy, light-headed"; "Merce optimism"; Boastful self-sufficiency; "Enthusiastic talkers"; Love of joulal company

This cyclothyme variant is, according to Krettelmer, the purest group of hypomanies. They certainly differ constitutionally from the more querolius variant described previously; but the transitions are so flowing and they have so many constitutionally common radicals that they should in broad divisions all be grouped under hypomanics. As we shall see in a later chapter, the present group may on the neuroglandular side perhaps be more dominated by the thyrold functions, while the other

and the Bucouscious, Catabridge, 1922, man, ap. est.

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Case 45 .- Age 18. As a leader of two other boys, one a lentosome and the other a prince, I stale many motor-cars and left them after their son rides through the city's suburbs. Used to fotch gists with these cars, go to lonely places, separate into pairs and swactise several excesses on a large scale. On other archasons drove with car through the streets making all kinds of mischiel Josev elie thay tried to knock over the sanitary buthots standing on the sugar of the streets at midnight, by just catching them with the car's buffers. When the nations in charge of the buckets placed them away from the edge of the street, the boys loaded the care with stones to throw at these buckets. One night on returning through a business street, this boy tried to throw the atonos still left in the car at a pane of glass. They missed a liw, but ware full of joy when the stone crashed into one of the large panes. In this way they fractured nine large show-window panes in one night. At the last one they saw a paw-paw through the fractured pone, started a moul and were arrested. In reformatory: Self-opinionated, buisterous, but very generous; iovial, sociable and good-natured; very fond of music and singing. In one concert that I attended he took part in nine items; leader of boys' concerts; loud in his address, greets me enthusiastically when still at a distance : boasts pleasantly about his genius for music and recitals : says he leek sure that he will still do something great for South Africa; has a fluctuating, but pessionate religion;

in one of his affectionate betters advocates Christ to one of his old flatners and status, "I have champed a for, damn it, I am entirely another mon," also monotions to girl that he is "as far as a pig"; he in extremely optimistic in every respect; natively assumes that he is quick hashsome and has "much braises"; angumentative with the purpose of showing the hoys what a genius they have the privilege to be with; when he described the build of his relatives ill pentonimed them with a plastic, comment effect.

Somatically: Pylmic but with broad shoulders and fair muscles.

Gass 46.—Age 18. Stoke motor-our, west for joy-ride till run out. By pelvel, then took another car. Often changed work, but very foud of sailoring. En interview stated that he very much rapoyed to face before personing police. Does not jook admiration when he drives a car but enjoys the senastion, the speed and the act of controlling the car. Fond of companions, sever wants to be alone. Never worted about religion. In reformatory: happy-go-incity, fond of playing the fool on parathe: state of boysis reincited and native optimism; generous and joviat; sakes this condition with boy-jist uncomperpadorse; admirs himself in his letters that he is "a hard case."

Somatically: Dysplastic pyknic (infautile board, etc.).

Case 47.—Age 19. With a companion stole two horses which he tried to sell. In reformancey: and of a big meal, amoiding and assuming joides; accepting, happy-genducky very sociable and jovial; quick-tempeted but quickly reconciled; sex-sully very sociable; in interview told me that he spent much maney on his consade and also on girls, with some of whom he practiced sexual; interview will do anything set meany and jovial company; rearractments into his cyes when he stated that he could sever loave dream that matters would turn out as they did. Writes many letters to his home saking for next, photographs, sic., usually in an enthusiastics strain.

Somatically: Pyknic, rather tall with full controles.

These cases indicate how the jovial, mive, optimistic dopishly playful hypomunic is very liable to certain forms of delinquency. Motor-thicking for the purpose of joy-rides is extremely common with them. It is instructive to compare this type of motor-thest with that of the schizothymes. We saw that the schizothymes steal mator wehicles to keep and use prematically or,

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in isolated cases, to compensate for their feelings of selfinsufficiency by conscious posing and manœuvering before an admiring crowd. The pyknic, we see now, does it for real "iov-riding". In a naive way he "identifies" himself with the situation, enjoys the act as such, the sensation, the experience of travelling at a headlong speed. His soul is in the function: the act becomes spirited (" beseelt ") as]seasch says of the integrated tyre." The pyknic does not do it so much because of "long-thoughtout purposefulness", but in a naive, playful manner, Naive ontimism prevents him from " dreaming that matters would turn out as they did". One of these motor thieven once had a peculiar escape. While he lay under a cur endeavouring to disconnect the buttery from the keyboard. the owner stepped into the car and drove off, leaving our friend to escape the back wheels and the differential box. The invenile was very pleased with his interesting escape and did not | this beson deter him from future risks.

Their self-feelings are of a childish nature. Usually harmings, they may flame into aimless registance of control. "Furaly formal, aimless willing " of early infancy is very near to it. Stern characterizes this type of self-faeling as, "not a knowing of the self, but a feeling of the self, a willing for the self," when analysing the child-mind." In the levial variety of cyclothymes the self-feelings usually manifest in fudiceously police intentions (e.g. to do great things for their country) or ideas (e.g. that they are handsome, and "brainy"). In all this they differ from the epileptoid's "broad complanent moralizing and philosophizing about the self in a sugary manner" by their freshness, natrife, harmless good nature, and emotional identification with their environment. In their aggressive, fiery reactions they do not show the cold, systematic,

³ Mickelmann, aft. crt., indicates that the sport of the R-type is animated (dweeleast) and not a cold, purposeful nethrity as in many of the T-types. W. Jamesk very strongly englisasies: this intimate

and spirit-permentalizes of the 18-type's acts

and spirit-permentalizes of the 18-type's acts

androge, yp. 141, 162, 271, c'

sol., pp. 44, 162

revengefulness, sumetimes summating and remaining latent for a long time in epileptoids and achitethymes.¹

The "live and let live" characteristic, the sociable identification of himself with his openiovers is probably the main cause of delinquency in many pyknics. The last of the three cases given above, is a good example of this. Lenz has already indicated the pyknic's inclination to practise "Renembing", i.e. a playful, husiness-like victimization of green country cabbases by a band of gumblers and swindlers. There is very little lone-thoughtout, systematic procedure in such a practice. It is essentially a sociable, playful concern where rapid, witty "handling of human beings" and " an eye for the exact moment " are the main necessary qualifications. In our own material, too, pylinics are usually found to profer speanades in the company of others, with whom the spoils are usually shared, or escapades connected with living beings. They seem to prefer burgling an occupied flut where people are sleeping, to burgling a deserted farmstead or a dark store. In most cases, of course, the pyknic knows how to get sexual, gastronomic, and drink pleasures In return for his money." But his nalve good-nature. sociable relations, and true emotional rephori ildentification) with his fellow-heings certainly make the pyknic the most generous of the three types.

"Comfortable Enjoyers", Glussons, Alcoholic Intemperance, Sexual Excesses

Krotschmer definitely mentions this sub-type, and in many places indicates that comfortable enjoying is an essential characteristic of most cycloids. You the most outspoken form is cartainly the hypersonaic enjoyer; "a tritteres to a certain materialism, to enjoyment.

¹ Physique and Character, p. 129; Jacinch, ep. cit., pp. 106, 144, 145, 146.

Lenz, Grawsfrast, pp. 177, 188.
 The two cases of criminal pulsaies given by Luns are ordataming in this respect, op. ct., pp. 177, life. Vide also kircheleuer, ep. ct., p. 129.

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love, eating and drinking, to a natural seizing of all the good gifts of life "." 1

Cate 48.- Age 17. Convicted of several counts of fraud. Wrote five letters to storee in the name of his coursin and other people with where he stayed, acking; [1] 2s. polony and 1s. billong; [2] three time of jam, two head, three bags of tobacco, four packets of cigs, two hotels lettonade, 1s. sugar, two time of mails; (4) two noille, two jam, two bread; (4) 3s. polony; [5] one jam, one bread, and £1 cash. In reformatory; extremely easy-going, too large even to listen to a story or scrutinise a picture; peacishments for tattocing, amuggling tobarco, and their of food.

Sometically: Muscular pyknic.

We can also refer to Cases 47, 41 and 42 as examples of this type. If financial fortune smiles on them, they may in free life become enormously fat. I have met many of them in South Africa. Their fatness may create the impression of shortness, but many of them are near to. or even over \$ 11, (184 cm.). This height -due mainly to strong limbs -and other features such as broad shoulders. high chin, large some, etc., are clear indications of slight athletic constitutional admireure.2 In our delinquent material, too, the real emovers always showed slight athletic or athletic-decolastic constitutional admixture. Leng speaks of "vegetative ego-assertion" when he deals with the comfortable enjoyer, and the typical example he gives in decidedly a hypomanic pylenic with broad shoulders, fair size of nose and seraiche, thick hair. His case must also have a good physique, because he was repeatedly punished for bodily injuries to persons, and had also been employed in such a sturdy line as blackstrithing. The case of Lenz, our own dellinquent material. and also cases known to us in private life, prove in another way that these enjoyers must be of a wirle and sturdy physique. All of them are sexually very strongly endowed.

Physique and Chancier, pp. 129, 242.

* Lenz, Gruttdriss, p. 188.

The Prench leader, Missbeau, is described by Revischmer as a giutton, who lived and let bue, eaching in consist. Seetschare's plate of him shows a well-built stan with particularly strong legs, and a fairly large none—both indications of aphieticism.

Most of them have had frequent sexual intercourse from their seventeenth wear, and I know of a few cases where they include in this with their own wives or promiscuously as much as three times per night for a few nights of the week regularly.3 The slight athletic components in the "comfortable enjoyers" are not at all surprising-in fact, it is in line with our observation that athletics are very prone to be gluttons, especially, of course, the deryaded athletic found in reformatories and prisons. The nyknic. however, is not so much a glutton, but cather a person who " naïvely enjoys" all the good gifts of life."

From the presentations W Lenz, Kretschmer, etc.,1 It is avident that these "enjoyers" must also fall a ready victim to alcoholic intemperance. In private life we know of many hypomanic drinkers, and, judged from interviews of our delinquent material, alcoholism seems to be not Infrequent in these. But we are unable to reach definite conclusions in this respect because particulars concerning the pre-reformatory lives of our material have been very unsatisfactorily gleaned and described -mostly by vary poptly aducated police officers.

As already stated, masculine pylonics of the hypomanic variety are sexually strongly endowed. Kretschmer lays much emphasis on the general strength of the sexual impulse in pyknic evelothymes: "The sexual impulses are simple, natural and lively," " in the hypomenic it is generally notably strong," and in the depressive region often over the average. In cyclothymes we do not find that cleft or disquion between the psychical and somatic aspects of the sex impulse, so frequent in schizothymes. Very few pyknic cyclothymes above 17 years of age are satisfied with musturbation or other pubertial perversions of physical sex, usually practised right up to complete

Also Leur, et. rif., pp. 177, 189.

Also Letz, ep. 217, pp. 127, 188.
It is probable that where the neary hyperantrile with very labils moods to dominated by hyperthypoldism and sympathetica-tray, the energy-going, confortable enginess epochatyme has a fast dopte of vagotopy perhaps intermitted by sympathetica-tray crack [wide Pende, Konstitution with immers Mathema, Leiperin, 1926, g. 225, and Cannot. Baddle Changes).

Also Bukute, Lehrinah, pp. 450, 340.

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manhood by schimothymes. Cases 4z, 44, and 45 given above, at hypomanic cyclothymes illustrate this fact. Most of our pyknics who entered the reformatory after 17 years of age, have misbelayed themselves promiscuously. It is difficult to gather enough data for definite canclassions, but judged from evidence and interviews, the pyknics appear to be more discriminative than the athleties in the choice of objects to satisfy their saxual impulses. Ill is probable that—even if only for a whore moment—they also seek their characteristic sociable relations and true emotional exphar with their sexual partners. The act must be "spirited" (beseelt; it must incorporate the whole emotional personality."

38. The Depression Cyclothymes

In accordance with Keetschmer, we have given the depressive temperamental qualities as: "Oulet, calm, easily depressed, soft-hearted" But they also have the general qualities of cyclothymes, viz. "Sociable, goodnatured, friendly, genial". | is already apparent from these combinations that this variant of the cyclothymes will not be inclined towards delinquency of a serious nature. Kretschmer speaks of them in those positive terms: "They can saise themselves from the buttom rung, through their assiduity, conscientiousness, and dependableness, their quiet practical outlook, goodness of heart, affable friendliness, and personal fidelity, to the position of a kind of revered, indispensable, true old factotum, beloved of all." He also mentions "energetic perseverance", "cautious, all-too-soft natures, tendency to take things too much to heart ". " playing an honourable rôle in more protected situations."

Cases of an immixed decreased temperament are very rare in our material. The lew cases who tended in this direction, showed many qualities in common with the hypomanic variants, such as naive, jovial, sociable, good nature in company. But they differ fundamentally from the hypomanies in their lack of sthenic self-feelings. In their delinopent behaviour, and their attitude towards the court and their fellows in free life, and also in the reformatory, they miss all overhearance, load initiative and self-sufficient leadership. In this respect they remind one very strongly of leptosomes. But they differ from lentournes in a much freer, more sociable and emotionally true mixing with their momentary environment 1: -

Case 40 .- Apr 19. Convicted of several thefts from figte. In most cases there flats were occupied by women. When charged, he conferred all his burglaries, including those unknown to the authorities. Aske the court's pardon, states that he had to do something for food, could not find work. In referencery: Setmum c. fold of all sorts of music; length readily and beartify when his company encourages it; weak self-assertion in boys' court. Careful and next at psychotechnical tasks : unreflective in company. Somatically: Peknie, but tean, fairly small eyes and thin museles

The delinquent acts of this group are usually more exugenously than endogenously determined; force of circumstances, influence of stronger personalities, etc. In connection herewith there is a peculiar type of murdar sometimes committed by more demessed cyclothymus. Böhmer * gives an instance where such a pyknic suddenly that his two children and seriously injured himself after he had reflected for a short while about his enhappy bothe conditions. His first idea was spicide, and only after that

who found hyper-want criminals to be resterably of the kneylingus physique M J. Brentmann (Architect de crismologie et de méderine légale, Nharkoff, 1927, p. 1250) econes to the same conclusion. Vide also Barman, op. est., p. 59.

1 Burnke gives an unbatanding instance of soth a person who

sobbingly sought for metable company; there he conversed with spirated planears, only to go home again and continue his crying. Lehrbuck, p. 205.

* Monstuckenst 1928, p. 208.

it occurred to him that he could take his beloved children with him into death. This kind of love-murder we have also described in beptocomes, where, however, the sentimental idealistic aspect is more prominent than in these pylenies who are dominated by the momentary depressed mood.

39. Commutions between Repressive Pole of Cyclothyouss and the Leptosomic Constitution

(a) Temperament.

As stated, we have not had many depressed pyknics in our delinquent unaterial. But we have especially endeavoured to observe members of this group in private life. Our observations in both fields have led us to the tentative conclusion that there are intimate blophyslological and psychological connections and flowing transitions between the depressed pylonic and the authenic schizothyme. This his in very well with, and completes our "Triangle of Temperaments" (paca. 48). We have already seen some similarities between these two groups In the asthenic actitude sowards the human environment and in the love-murders. The asthenic actitude, common to both groups, is of utmost theoretical importance, as we shall see when we deal with the biophysiological similarities. Kretschmer has already shown that : "The hypomanic tends towards the sthenic life-attitude, towards pleasure and anger, naive, importurbable self-feelings and optimism, an almost ludicrous conviction of own value and own ability; the melancholic evoluthyme on the contrary, towards a sense of failure, modesty, lack of selfconfidence and enterprising courage, self-abasement, sense of guilt, and long depressive reactions." 1 He also shows that the tender hyperasthetics cannot stand the medium coarseness of life, are easily wounded psychically, tend strongly towards asthenic experiencing, the most hursh

¹ Med. Pynkologie, p. 196; E. Wenberg, "Zur Hlimik und Putho-genere der berichten Depremionanthrule," Zalts. f. Bear. 1898, p. 565.

insufficiency-feelings, autistic flight from reality, etc. Moreover, a narrowing to an emponential limit of the capacity = (ee) with others, with a protesque measure presumption, and self-adulation, as well as contempt and ignoring of the environment, inconsiderate and hypertensioned athenic experiencing and action, in the opposite of the hyperasthete's authenic attitude.4 Kretschmer has, however, not connected this asthenic-sthenic polarity with a sometic basis. But it is obvious that with slight modifications this athenic opposite of the asthenic hypermithete corresponds to the epileptoid temperament which is mainly connected with the athletic habitus. In descriptions of the depressed pole of cyclothymes in his main works.3 Kretschmer fromently uses characterizations which are almost equally applicable to the leptonome as described by us: "Cat that walks by itself," "alight tendency to hypochondriacal eccentricity." "did not pay much attention to girls, he was afraid they would want to marry him," "helongs to no societies," "faithful circle of friends," "books have been his best friends." "could not bear a racid change to new situations." "live their lives quietly and in contemplation." "commenced brooding." "a little embarrassed and difficult when he is in a linge gathering of people or if a stranger comes across his path," "a certain anxiousness and slayness is found with many cycloid-depressive natures." "energetic perseverance and conscientious-DEM."

Kretschmer also characterizes certain schizoid forms as "constitutionally depressed", differing from the real degressives in so far only as they are more distrustful and nervous." W. Jacosch "repeatedly mentions that "depressions, anniety-states and obsessions" are common experiences of telany patients, and that these moods are

Med. Psych., p. 105.

³ Physique and Changier, pp. 186, 141, 142, 143, 134, 148. Vide also his statement about the commercions between the achievolymb hyperatlicit and the cyclothymic, soft, melanchale in wordtive parangin on which he is a recognized authority (Med. Psychologie, pp. 199, 62).

Physique and Churacter, 1925, p. 168.
Grandrigs, pp. 126, 427, 468, etc.

favoured by the one-sided presence of the T-basis. Taensch. himself acknowledges and we too shall indicate this still more fully in the following chapter—that the T-basis in its curest form (calcium shortage in nerve-chemistry, and hypo-function of the parathyroid glandt corresponds to Kretschmer's typical schizo-biotype. analysis of slight depression-states, also throws much light on this problem. He subdivides these depressions into eveloid-, schizoid-, constitutional- (i.e. chronic), climacterie-, cercliral disease- and osychocenic-depressions. With the exception of the cycloid and climacteric varieties. Wexberg maintains that schizoid traits predominate in all these depressions. Anxiety and insufficiency-feelings form the nucleus of all depressions. The depressions with a achieved basis differ from those with a cycloid basis. mainly in the tendency of the former to hypochondriacal and paranoid traits. Such schizo-qualities as "habitual anxiousness, shyness, reserve, excitability " have I many depressions already from the beginning characterized the pro-morbid lives of the patients. Sexually-coloured anxieties and insufficiency-feelings are also very frequent. Wexberg accordingly concludes: "Owing to multiplicity of constitutional bases Depression-states completely lose the nature of a gosolucical unity, and become a signification for a psycho-pathological symptom complex without a unitary etiology, and for a reactiontype which can develop in diverse frameworks." flowing transitions between constitutional depression and sensitive puranoia are also recognised by Burnke. The same author believes that certain periodic depressions in schizophrepic nationts can sometimes make the differential diagnosis between schizophrenia and mahicdepression almost impossible.*

(b) Physique.

On the soutatic and physiological side there are many indications, too, of a close relationship between the

Wexberg, Zt. f. New. and Psych., Bd. 112, p. 847.
 Burkk, Labrinck, pp. 371 and 729.

depressive note of cyclothymes and the asthenic schizothymes. In the few cases of delinquent cyclothymes who are inclined towards the depressive pole, we have almost always observed some indications of lentosomic constitutional admixture: deep-scated, small eves without the lastre and visous of the motroding eves (protrusio bulborrow) so frequently met with in hypomanics; pointed chin (nerhans sumewhat receding) without strong hony and fatty lateral mujertion of the lower jaw, and thus bringing the front-view circumference of the face nearer to the shortened em-shape : nose thin rather than anubbed and with tip drawn downwards; more delicate bones, joints, and muscles: shoulders surrower: relatively small skull circumference, etc. The same observations were made on a few individuals known to us in private life. Though the number of cases is not enough to conclude from it dormatically, we have found cases where such "soft" pyknics have blood relatives with a pronounced leptosomic physique—an indication of the heraditary "impusity" of the constitution of such detremive pyknics. Without suggesting any hypothesis. Kretschmer 1 himself has given instances indicating sampleless connections between the learnsome (authorical physique and the depressive psychical constitution. In his chapter on the building of the constitution he gives the following example of a mixed constitution: " A typical obstructed depression " with an " almost pure authenic " physique. In the same chapter he gives another case of "a decided astheric appearance", "narrow chest and a curvature of the spine (kyphosis)", " in combination with a simple inhibited depression". In accordance with his demonstration of schizoid elements in many depressions, Wexberg 1 also found leutnermic sometical factors in these depressions. Leptosames predominated in the schizoid-, constitutional (i.e. chronic) and in the psychogenic depressions. Athletics were seldom in all forms. But pyknics predominated in cycloid- and chmatteric-

Physique and Character, pp. 96, 106.
 Wexberg, ep. cit.

depressions, and were also present in the other forms to such a degree that these forms cannot be interpreted as pure schizoidy. Weeberg also mentions that Professor J. Large found one pylnic and nine asthemics among eleven rewhorenic decressions.

Zeckel 1 of the Committeen clinic on the basis of his own research and a review of all the more immortant German. English, and American researches, concludes that a lowering of the basel metabolism is curumon to depression and achizouhrenia. In a sumbir number Toenstra t of the same clinic comes to the conclusion that a hyperglycamia is common to depression and schizophrenia. Both these conclusions indicate important, mutual physiological conditions in these two clinical forms. But particularly the conclusion of Teenatra with securd to glycemia. which, in the light of Cannon's researches, may be due to a hyper-function of the adrenal medulis (adrenalin), and accordingly to chronic teas." has in admirably with our contention that in authorics the nerve excitement discharges into autonomic feer centers. It is probable that the fear-conditions for in a characterological form: " feeling of Insecurity ". " asshenic experiencing ") form the nucleus of both forms. But this nucleus is manifested differently when involved in the different constitutions : it is autistic. eccentric, perseverative, in the lepteromic constitution: and sociable, naive, emotional, in the nyknic constitution, Sumatically the absence of arhietic elements, especially the musculature, is striking in both forms. This mayas we explained in connection with the difference between athletics and leptosomes in the schiesthymes-produce

Grandelefwisselung by Psychoson, Grountgen, 1989.
 Bloodyni brzyskott by Belmachelle za Schiensburste, Gronitatab.

Bloodstribergebeit by Melanakalur au Schiensbreiter, Groningen 1928.
 Cappon (Bodyly Chabara, 1928) found advention secretions 43 m.

^{*} Cannon Headily Changes, 1923) formal adversatin secretions at an accompanions of water generating commons, i.e. fear and anger. Other researches seem to suchcase that adversation above without the adversation overtice secretion is present in fear, whigh is ungue the cortex ascertion plays a determining refus effectives. Preside, Treewick, etc.). It is, as plays a determining refus effectives, etc.). It is, as the president of the contract of the contrac

the absence of aggressive tensions (measurant tonus) in the extreme depureasive. In the cyclothysics group, therforc, as well as in the schissishysine group, the athenic form of experiencing seems to go with rousculature, broad shoulders and other athletic constitutional factors, while authenic experiencing seems to go with lack of musculature, fine homes and other asthenic physique factors. In terms of condocrine functions, the asthenic athenic proportions probably correlate with hypo- and hyper-activity of the adrenal cortex and the anteriorpituitary (in most at leastly).

SIMPLARY OF CORCUMSTONS

1. The hypomenic variants of the cyclo-type are constitutionally related to athletics, as indicated in my triangle.

 Querulants and self-feeling cholerics with nonzinonal serfous aggressions are frequent in our hypomanic delinquents.
 It is mossible that their constitutions are not ortice burn.

 The industries advanturers, gang leaders and changeful, rough whole-laggers signer languary in youthful delinquants. Athlutic constitutional factors are always found in them.

4. Jovial apsinists and sociable onjoyers are flowingly connected with the fungoing group. They usually lave athletic playical qualities as well, but may perhaps be more dominated by the shyroid, while the Jorgan may be more adversal corres control.

 In all these variants the delinquency usually is the direct outcome of their temperaments: nonnectary aggressions, aonsational joy-rides with stelen motors, criminal game, money wasters, excual excesses, empress, almobalic intemperance.

 In these temperaments, as well as in the schizo-type, outlined in previous chapters there are close correspondences with the types of Jacosch.

Depressive variants are not frequent in delinquents. Moreover, their delinquency is mainly exogenously determined.

 The depressive variants manifest asthesic qualities in temperament as well as in physique. This is explained by, and further completes our triangle.

¹ Herman, Pende.

CHAPTER VII

MENTAL (INCLUDING DELINQUENT) QUALITIES OF SOME DISPLASHIC TYPES

40. Dysplastic Factors in the Three Main Types

In para. 13 we contended that dysplasias (physical manifestations of dysplandularisms) should prove very algoriticate in all abnormal personalities of whom criminula, psychopaths, etc., are certainly sub-groups. Unfortunately, the dysplastic group is very betweeneous, and dysplastic types have not been worked out definitely cought or in sufficient detail. We can, therefore, give only very vague co-ordinations between dysplasias and crime, or dysplastic types and delinquent types.

In our material we frequently found dyaplasian, though only in very few cases, were those dyaplasit, somatic qualities so pronounced that they blaceed or overruled the qualities according to which the cases can be chasified into the three mans consistutional types. But somewhere the cases can still be classified, and the dysplustic qualities metrily serve as an additional stigmatization, these qualities are of major importance as the following indicates:—

(a) Dysplassic Leptosomes.

The extreme aethenic physique is nothing but a dysplasia or a dysplasia.

It is connected with dystenctions of the thyeaus (hyper) and the parathyroid (hype) endocrine organs. The delinquencies, such as parasitism, slyness, etc., connected with such extreme atouicity must, therefore, be mainly brought into relation with the dysplastic conditions. The homosexuality of this type and of the enunchoid variants of the leptosomic type are definitely related myglandularisms. In fact, Krenfeld, Lens, and we ournelves

(Cases 6, 12, 50) have found many numerities between homosexuality, infantile sex-manifestations, etc., on the one hand, and dysplastic conditions on the other hand.

(b) Dysplastic Athletics.

Kreyenberg has shown that in egileptic and in epilepticid othetics dyaplastic conditions are remarkably frequent. We have indicated in our chapter on athletics that epileptoid hypertensions probably depend, either on contitutional entreuse (hyperpitoitary), or on mixtures and dyaglandularisms. In the Disseldorf mass-murders, and dyaglandularisms. In the Disseldorf mass-murders, are of central importance. In this way the dyaplastic (dyaglandular) conditions, though not predominant in the physique, are still intimately connected with the clinquency. The athletic dyaplastic following. Ill-proportioned, ugly, and passy) physique chements dominate already, we shall discuss in the dyaplastic group below.

(c) Dyaplastic Pylmics.

According to Kretschmer pylanics are not much inclined towards dyagiandularisms. Nevertheless, we believe to have found some dyaphastic features in certain cyclotemperaments; the comparatively coarse head-hair, long legs, and pronounced eyebnows in some professional quartellers; infantile, hypoglastic physical qualities in some of the melanchodic variants; and also dyagiandular adiposity in certain cases of extreme vagotonic enjoyers (vegetators, vide Fig. 26), all seem to indicate dyaphastic conditions also in pylanics.

41. Faminious

many leptosomes of commeloid-like build (Case Nos. 6, 5c) feminine temperament-qualities are displayed, such as lack of manly self-assertion, susceptibility to sexual abuse by other boys, and to influence generally, small

vanities, etc. In our material we had so prenounced cases of Seminism. Lenz and Kronichi give excellent examples of such inter-sexuality, showing both in the physique and in the mind. The following is a case found in our own material, which illustrates some of the main principles (vide also Cases 5, 54).

Case 50.—Age 17h years. Had to theliver a message at a touse; found owner not at home, entered and atole wristlet watch which he were when arrested. On previous occasion stole another watch, also on the impulse of the monitor, when alone in his uncleip house. Under the influence of tallet and older boy stole various articles, such as this afety-varior, etc. Very found of courageny and bisocopies. For this purpose frequently stole money from purents and accusationary of the purpose frequently stole money from purents and accusationary.

Usually very sorry after deed committed, sometimes even returning articles stolen under tempting circumstances. Frequent change of work; preferred environmechanics,

because fond of fine cars.

In reformatory: inclined to be valin and to display: fond of finding out secrets: prefers gentle games, played in near string; analyy per to strane and bleathes very quickly: cally brought to tears: so lable and obedient; good Intentions, first lacks senactly, unveltable. My finding: Senality some of bonour: bloates cemarksably, e.g. whon previous career referred to, do when asked to be photographed nakedly. In tests triad hard to make a good impression, but not much teneatisy. Neas, and fond of good ciothes. Very sily towards girls, never any love-relations with them. Letters: A vary gritish, respect, and love-relations with them, goody ideas; sorry about his past, and law many good intentions; supershrails religious; intimate with this toother.

Physique: Ruddy thesis; soft, velvety skin; soft, sentimental eyes; round, soft facial kines. Hair-line on forehead characteristically feminime curve from ear to car, without corners on sides of forebead. No toward so far, Narrow shoulders, if compared with boward hips; generously curved contour of hips; very long legs if compared with length of trush (which Fig. 27); characteristically feminize

localization of general hair.

Owing is insufficient material we cannot elaborate on any pronounced dysplastic conditions of which femioism

¹ Lanz, Grandrins, p. 116.

is one: but we have to point out, nevertheless, that the feminine factors are of areat help in explaining such cases as the foregoing one. The boy, though sear the leptosomic physique type (hip-shoulder proportion, length of legs, weak secondary hair), and leptonomic temperament (expconscious sensitivity, susceptibility to influences) shows many mental and physical qualities which are not quite reconcilable with the leutosomic type: on the physique side, his ruddy cheeks, susceptibility to blushing, his round, soft facial and body lines, and absence of lean, bony body; on the mental side, extreme love of company. lack of persistence, etc. If the feminine constitutional factors, however, are taken into consideration as well. the physique, temperament, and delinquent behaviour at once become much plainer. Thus not only in extreme cases of homosexuality, or sexual perversions are feministic constitutional factors very significant, but also in less pronounced feminisms in physique temporament, and delinquency.

42. Infentifixm and hypoblesies

Cases of infantifism are frequently found in the following form: backwardness of physiological, temperamental, and sometimes intelligence age, if compared with the chronological (vide Figs. 20, 21). But we do not want to deal with these exhaustrialy sidner, because they have been fully treated by Healy, Burt, and others. We need only state that these infantiles show the following mental and delinquent qualifies:—Sousceptibility to the influence of more robust tellows; weak physical powers as required in the labour-number and as tested by the ergograph (vide Fig. 29d, s); a premounced form of swpremeditative, naive, aimlesseets (purchism) 2; weak transity; change-fulness. As such the infantile qualities endy complicate

¹ Burt, The Yeung Delingment, p. 210; Healy, The Individual Delbingwish, p. 237.
² Compare Kystuckness, Obs. Hysteric, 1927, pp. 23, 39. Hysterical

Compare Krytschmer, Uhr Hysteria, 1987, pp. 28, 39. Hysterical qualities consected with infrabilisms and faminishes are very frequent in our material.

the typological characteristics of these cases, because, in spite of the infantilisms and temperament, many of them can still be classified into the three main types of physique and temperament.

As far as hypophesias are concerned, we found an allround luvnoplasis in a few cases. Skanuan has observed more or less the same in adults, and has termed them "doll-type". At present he is engaged on a more intensive investigation of these adult cases, and believes that they may show a porticular mental type. Our invenile cases are so built that they give the impression of miniature aditions of the normal adult type (vide Figs. 16, 17, 18). Although the number of such cases in our material is too small to reach definite conclusions, it seems as if the allround hypoplastic types, just as in the case of many of the infantilistic types, tan still be classified into the three main physique and temperament types, complicated, naturally, by the corresponding physique and temperament Infantilisms. This tentalive conclusion must | Ulustrated by the following three cases: a miniature lentosome, a a miniature athletic, and a miniature pricaic, respectively:-

Case 51 .- Age 10 years. Fasher and mother divorced. Boy retained by father, but absconded to his mother savaral times: even when commused to industrial school, he persuaded other boys to accompany him, and absconded. Extremely attached to his mother, the best treatment by his stepmother or by industrial school cannot keep him from absounding. Scole money and food for this purpose. In reformatory: Very sad that he cannot on to his mother and stay with her. Easily influenced and abused by bigger boys. Victim of pergistent smoking. My findings: A tiny, lean, and miniature leptosome (beight 148 cm., weight 40 Kg., vide Fig. 16); too weak to pull exportable even with 4 Kg. (usual weight 5 Kg.); easily moved to tears; very timid, reserved, and submission. Told me that he had abscorded from industrial arbuni because hows maltreated him. (In revence would like to put wickly your thorns in their beds! But would not prefer to punish them more drastically.) Unreflective, but not impulsive; rather fatalistic. On football field a weakling—neither pluck nor power. He has neither beard nor accordary hair. Nipples totally infantile.

Case 52.—Are 19 years. Stole revolver and tools from the store where he worked. Went to nolice and asked them lock him up, because he had stoken something. Father states that the boy is wayward, and anxious to distinguish himself as his brothers did (three of them had been in reformatories). wants to get away from his home town by teasing the police. On previous occasions had already shown disrespect to police officers. Only occupation is swimming, dived into water so niten and from such a bright that his car-drums were affected. My finding; absolutely aimless; never worries about future or surious life-ideals: superficial in tests, conversation, and behaviour. Always ready | inin in with whatever is proposed by his fellows; ailly beyishness (pucrilism). Immense energy at games and play, at swimming pond indefatigable diving, swittening, and running without forethought or care. Frequent punishmens for carelessness. mischief and disrespect. In letters also boyish boldness, but ailly ideas; says "Things are pretty slack at the reformatory now, because inmates have decreased from-112 to 100"; boasts to his eister that he courted a mirl for ning years, and therefore knows what is what. Tells me that he stole many cars for joy-rides, together with other boys, allowed into bioscopes wallout tickets, and atole awents from atores, etc. Sometically a muniature athletic fheight 156 cm.), well-proportioned, with anceptionally fine welltoned muscles, but no beard whatsoever, and week secundary hair (vide Fig. 17).

Care 53.-Age 16 years. Committed to referstatory for repeated absconding from industrial school. Committed to industrial school because beyond parents' control. Played truant from school for days. Stole watch from a girl. In reformatory; totally intractable; the following major offences recorded in 24 years (minor lanses without number) : persistent neglect of kit; amoking intumerable times; apitefully breaking a pane; dishonesty; fifthy language; persistent insubordination, lesing boots several times; miscandact during divine actvice; in possession of money; discendent and gross inscience several times : cruelty to a cat; their of money; theft of food; out of downitory at night. My finding: a ministure pyknic, no secondary hair (height 151 cm., weight 41 Kg.; vide Fig. 18). Very boyishly mischievous; sociable; happy-go-lucky; jovial; unreflective; says and does things before he thinks; well pleased with life at the reformatory—frankly states that he has tobacco hidden in his buil. Buyishly enthusiastic about my colleague's motor-cycle, at once mounted it (without

permission) where it stood, took handles and said beamingly "Durbar-Jobburg handicup ".

We accordingly submit the tentative conclusion that such "miniature editions" (proportionate hypoplasis) of the three main types, againt from real infantile mental characteristics, also seem to above some mental resemblances to the typical characteristics of the main types ill which they correspond.

43. Athletic Dysplestics

(a) Plump, pasty.

Under these we understand a beterogeneous group of massive physiques, all of whom, however, have athletic factors in their constitutions as well. Some, or all of the following athletic constitutions as well. Some, or all of the following athletic constitutional qualities are observed in them: coarse-fibred head-hair; tair skeletal musculature; broad shoulders; heavy bones and joints; long logs, relative to length of trunk; deep-seated, amail eyes (telanoid) ste. The one group (Figs. 22, 23) seems to be—as we indicated in para. 13 (t)—nearer the equal athletic physique, only more plump and all persperienced. Some of these also seem to have intantisk and feminine somatic qualities shorter and muscularly thick-set, so that they may sometimes be confused with athletic-physic mutures (Figs. 24, 25; vide also Case sold).

In our material both these groups, particularly the first group, numistainably manifested the epileptic-temperament of Kretschner and Hams, as opposed to the cycleptoid hypertensions: they are mostly fairly inactive, slaggish, godwilled dependent, fatalistic, syrupy (vissisch) adhesive, ego-centric, etc. When infantile or fermionid constitutional factors are also present, the fundamental characteristics remain more or less the same, but are consultated by

such allows. The following cases, taken from this first group, must prove and illustrate our contention :-

Case 54.—Age 19 years. Took wallet with £12 from a room, when the normant in whom he had been sent with a message, left him alone in the room for a few minutes. When arrested applicated stating that had companions had misled him. Wanted to recor money in instalments : had bought clothes with it. Previous conviction for theft of hieyels. Does not give trumble to parents, but often changed work; inclined to | lazy. In reformatory; mustbetic, submissive and easily led. Addicted to self-abuse, and fond of listaning to smotty jokes, negligent, unreliable. My findings: anotheric, and sluggish: colourless: little initiative; easily persuaded; the opposite of a strong character: nassive egotism. In interview: frequent, undetected store breaking, under the leadership of other boys! always took whatever useful articles he found. Had never had any relations with ords, and showed no interest in sport. Physique: (airly tall, ill-proportioned attiletic: distinct ferrinald constitutional qualities, e.e. very weak secondary halr on face, hip-shoulder proportions, etc. fride Fig. 22),

Cats 55 .- Age 121 years. With two other boys stole large quantities of elothing material from a factory where they were amplayed. Other two boys conducted their case in such a way that they were acquired, and this boy, on account of confessions, given all the blame. Stole, over a period of two manths, by frequently atapping staterial round his body, underneash his clothes. Parents find him to be obadient and isome-loving, but easily persuaded. In court dull-witted. In relocationy; normal intelligence, but of a dreamy disposition; no interest in sport; sometimes found in teacs with no obvious reason; very weak resistance to temptation (petty stealing and persuasion by others). My finding: strange, sneary smile when aneaking: fairly sluggish and dependent; wandering, shallow attention; no interest in girls, but foud of does, homely hobbies, and his younger brothers and sisters. Physique: fairly tall athletic, but somewhat all-proportioned, please; curved upper-spine (vide Fig. 23).

Case 56 .- Age 163 years. Committed to industrial school for stealing bicycle and for treancy. From industrial school absconded five times in six months, or pipe times in nine mentls. Principal of school reports that boy is very honest and upright, but unable to resist the impulse. Boy himself very unhappy and fatalistic about it, wants to be

locked up to get peace of mind. My finding: Friendly, geod-natured, somewhat shy simile; countersome; unconcerned; does not smoke, because too difficult to obtain tobacco; teased by other hops. Physique: athletic dysplastic, with infantille stigmata, e.g. shape of head (vide Figs. 20, 31 centre).

These cases certainly have much in common with the grileptic syndrome. They have the typical epileptic mental qualities, and soem to be fainly free from epileptic crises. Evan when they aut "driventy", as in the absonding of Case 56, they sneetly come to aggretative violence, and they very much accentuate their helplessness, in resisting these weathnesses ("dagegen ansukimpfen"). Our results agree with those of Kreynbarg, who found that in actual epileptic materal, the dysplustics are more inclined to the "epileptic noracter, as described by Kretachmer; and the athletics more to the "pilepticid" character, as described by Kretachmer; and the athletics more to the epileptic at the distribution of the control of the co

The second group of athletic-dysplastics, who are somewhat shorter and muscularly thick-set, can, make have mentioned, sometimes be easily confused with athletic pyknics. Very important criteria for differentiating are the following: the height, though below that of the average athletic, always seems to be from z-3 cm. above that of the pyknic averages; skim matt, pasty, and coarse; hair coarse-fibred and low hair-line on forehead. It is necessary, however, to indicate here that there seem to be gradual transitions, both sometically and mentally from this group to some forms of hypomanic querulants, and passive vegetatives, as found in the pyknic group (vide Figs. 44, 26, 42).

My material is too heterogenous and small in this respect to reach definite generalizations. This group nevertheless appears to have many of the fundamental

Krayenberg, op. cit.; Kreinchmer, Med. Psych., p. 222.
 Delbylch, op. col.

epileptic (not epileptoid) temperament-qualities of Kretschmer, Krevenberg and others, e.g. fatalism towards their delinquent inclinations, matter-of-fact outlook, susceptibility to influences, uncritical religiousness. Occasionally they also react anguly, but, as far as we could observe, it is more in the nature of reactive anger, than an endogenous crisis of aritability. A striking quality observed by us, and which should be further investigated. is the following: the relative frequency (three out of eight) of incest in this group. The following examples will illustrate the tentative statements made above :-

Case 57 .- Age 17 years. Under the leadership of another boy (Case 61) stole motor-cycle, sode on pillion. Frequent store-breaking and abscording from industrial achoel.

Always early under leadership of others, and usually food. tobacco, money in order to go to biascopes. Abscending for feat of punishment (for sums, previous absconding, and regiserce). In returnatory: sluggish; unconcerned; fond of a big meal; friendly susceptible to influences; extremely easy-going ; very matter-of-fact; when he took off his boots, he said resignedly: "The thick government stockings make one's feet smelly." Taloos his own dolinquency fatalistically, dues not consider it m something mrious; only sorry that III was always so pasity found out. Athletic desplassic (vide Fig. 25) : height 187-5 cm., party skin, coarse-fibred head-bair, reaching low down on forehead. weak beard and other secondary hair; bridge of none broad and low: brund shoulders: relatively lone loss.

Case 56 .- Age 18 years. Very calmiy and deliberately persuaded his sister, to years old, to allow him sexual intercourse with her, which he supeased five times in one month. Girl became pregnant. Another sister, older than boy, is epikeptic. My observations: Boy very matter-offact. Writes home to describe his journey in a calm manner. as if nothing extraordinary had happened. In interview stated that somebody else was guilty for his sister's programmy, but that he took the himse to protect her. Feels quite pleased with himself and with his state in the reformatory. Physique: athletic desplastic (vide Fig. 24); coarse hair. growing low down over the forehead; matt, pasty skin; medium height. 167 cm.

Cars 59.-Age 19 years. Very calmly and deliberately enticed his sister 15 years old, to sexual intercourse with

him. Repeated this six times in the course of ten days. Girl became pregnant. When appeared after birth of child. he acknowledged his guilt and asked for forgiveness. In reformatory extremely fond of enting; sometimes badtempered. Keen on boxing; very easy-guing. Our inding: Occasional manifestations of anger, e.g. when tests too difficult, or when another buy jumps agon him in swimming pend by accident. Dull, easy-going, but friendly and goodnatured towards us. In his letters to his home very pathetic and intimate. Good indentious, will take up boxing to carn his mother a living, does not mind if his face is bruised for mother. Thankinly peritest and religious, often sentimental. In interview stated that he is very much spharmed of himself, and that, with God's help, he would lead a better life henceforth. Physique : extremely muscular, but fairly short and plump theight 172 cm.). Secondary hair weakly developed; matt skin; small, dull even; relatively long less.

All these plump, pasty athletics are inclined to be alugiah, ayrapy, god-willed, dependent, etc. In daily life, too, we have frequently met them. Then, apart from the slugiah, dependent attude, they are usually hypor-religious and may be sudents with calm application. Saxual abnormalities, such as incest, sodomy (with animals) relations with natives and coloured people, seem to be generally frequent in these groups. In our delinquent material of plump, pasty athletics, we have also vary frequently found daggs-snokers. This drugstimulant temporarily raises them from their "bound" sluggishness to a state of self-confident excitement (sume what similar to the effects of options).

(b) Plump Musculary,

The last case, described above, manifests occasional augry reactions. This seems to go with the extremely muscular, though plump, thick-net plussique. Kreyenberg, makes a difference between the plump, pasty athletics, and the plump muscular athletics. We have treated the plump, pasty athletics, particularly in cases of marked plumpuress and pastiness, under these athletic

¹ Kreyenberg, aft. nit.



Fag. 41.



Fine, gt. Hanna-Delanic,

dysolastics. This we did because they seem to differ somatically and mentally from the tall, well-proportioned athletics, and to correspond in these respects to the dysplastics. The struct muscular athletics we have not treated intensively. This is not because they are unimportant in delinquency. On the contrary, they seem to be inclined to premature and hyper-sexuality. and in some cases to situation-overelancy. But the approach was difficult, because in many cases we took them for athletic pyknic mixtures. In juveniles where the fat, beard, etc., are not yet developed, it is extremely difficult to distinguish between this muscular thick-set. group and the well-trained muscular pyknics. Kratschmer does not describe them separately. He only mentions the plump pasty athletics, ill-proportioned and with a diffuse development of fat which obscures the muscle relief.1 The thick-set muscular group undoubtedly has some affinities with pyknics. Sometically they differ from invenile pyknics mainly in muscularity, particularly as regards the trapesius unuscles. It is a group which must be further investigated, particularly with regard to their connection with muncular pyknics. and the group of dysplastics described above. According to our observations their executial mental qualities are the following: strong, uncomplicated tex-impalse; lack of inhibition; high self-feelings; frequent, quicklypassing-over reactions of anger and disrespect. Most of these qualities may also be interpreted on the basis of athletic-pyknic mixtures (vide cases 38, 39, 41, 42).

The following case of a dysplastic, pleanp, muscular boy will illustrate the main points mentioned above in connection with the plump musculars: he has many athletic features in his physique (trapezios, broad shoulders, steep back of skull, height of chim, etc.), but he has many qualities foreign to his type (total height, length of legs, fat plumpness, straight profile, etc.). In fact the short legs as compared with the treatk, straight profile, fairly round face, etc. seem to indicate the pykanic. On

the mental side we see fasts of all that he is an outstanding problem for noticity, and should therefore be studied and explained bio-typologically. Moreover, some of his mental cheapateristics may be explained on the basis of a micture between athletic and pythic, e.g. free, self-assertive social behaviour, aim-definite sex impulse. Accordingly we are at a laws what to do with him from a bio-typological point of view.

Care 58s .- Age 154 years. At age of 12 beyond control at home : refuses to go to achool : stays out late at night : a power for evil with other boys; stole a bicycle, and at home everything must be locked away for him; comporal punishment has no effect; no self-respect, according to teachers; chenky. Accordingly committed to industrial school. But could not be controlled; but wild on fire; from thirteenth year a hyper sexuality; night visits to kuffer buts for this purpose; utomiscuous mishehavious mith every girl within reach ! sexual maniac. In sefermatory : a buil-type : stolid replies : self-confident : no acruples or inhibitions : sasily flattered : lary at work and pasts an engageam (Fig. 30, c) which indicates slackness, though impulsiveness of energy; unreflective. Institution offences Disobedience and northrence, laziness. persistent smoking and large quantities of tubacco fraquently found in his possession; frequent their of food, malicious minry to property, imposent discusped and gross misconduct. Somatically: plump muscular (vide Fig. 47), fair fat layer over whole body, weight 65 Kg., broad shouldoors (40 cms.), short ' legs (80-5 srock.), and total body (187 cms.), high hard and coarse hair; very asymetrical, slow body

44. Infantile, fat dyaplacia

(see Fig. 47).

Here we want to describe some examples of a peculiar type of which we have found about 6 per cent in our material. They are so much alike in physique and mental make-up that we certainly have to do here with a very recular somatic-temperamental correlation:—

Case 60.—Age 20 years. Played tream from school, ran away from home; late hours in had company; quick

It is possible that all those planup monomines are athletics, whom leagth of legs, sto., has been presentedy inhibited by hyper of premature sexuality (Speitrupus, Borman). The same orbicles of growth of legs, however, it found in pylonics and its wolfiers.

tempered, threatened his mother on several occasions. fights with children of michbombood; filthe language and habits. On account of this committed to industrial school. Absconded several times, on last occasion house-breaking and theft. In reformatory: fair progress in carpentry. My finding : outspoken; boyah arrogance; prefers not to tell me about his previous life, because I may be something other than a student; is not prepared to let his photo be taken because unnecessary; self-assertive; "rechthaberisch"; querulant; sometimes delights in bullying other boys loud and pleasant; bold; infantile lack of tenacity and seriousness; unialt-temperent; does not believe in any religion. In letters: "I am " style; his return home must be kept a secret, because he wants to surprise the fellows. Physique: short, pasty, and thicknet, with heavy fat layer on buttocks: at age of 20 no beard and very weak armpit-hair, soft head hadr (vide Fig. 46).

Cars 81.—Age 17 years. Very wayward boy, plays irtian'i from school, chiana toewode step-neother witcan he addresses by her Christian name. At industrial school stole motor-cycle and abscndacd. In esdormatory: found of a big mail; of a fighting disposition; defant and bad-tempered; in school has a very bod reputation, but makes very good progress in plumbing. My finding: in beginning unwilling to be tested, defant, and frankly stated that these tests are non-semical; with tactful handling became much more tractable, but always remaissed a case of externe quarristoric self-feelings; openly mocks at religion; likes to be taken notice of; vary little symposite to feelings. Thysique; short, pasty, and chickest, very week secondary hair, heavy its accumulation on buttecks, the same type as the foregoing.

These cases undoubtedly have many affinities with the querulant variety of hypoconnics. Even on the physique side they have pylanic qualities: straight profile-line, roundish fane, noft head-hair, fine textured skin, neck placed low between shoulders, etc. But the weak sectondary hair is a striking exception.

As far as these various dysphastic groups are concerned, we only give some ternitative somatical-temperamental correlations. Our main aim it to indicate the following: (a) The heterogeneity of the dysphastics. (b) Their extreme importance for delinquency. (c) The great scope for working our special types in this group.

CHAPTER VIII

CO-ORDINATIONS WITH SOME OTHER TYPOLOGICAL STUDIES

45. General

From the commencement we have emphasized that the various biotypologies should be brought under the same formulæ and should supplement one another. The typology of Kretschmer extended by the studies of Pfahler and others, must be co-ordinated primarily with the typology of the Jamach school, the typology of Heymans and Wiersma, the types of Jung and the endocrine personalities of Berman. All these types are blotypes file, based on biological, physiological or clinical principles of division), or if not biotypes originally, as e.g. the types Heymans and Wiersma, they have been biotypologically co-ordinated afterwards. We cannot co-ordinate our "Triangle of Temperaments" with all these studies in detail. In previous chapters we have repeatedly referred to the lacasch typology because we have really been materially aided in our analyses by their accurate studies, and we feel assured that the two typologies almost coincide. It is therefore incumbent upon us to show the correspondence in more detail. We have often referred to Pfahler's extensions of Keetschmer's typological theory, especially with regard to the principle of " perseveration ". because our school has in the past laid strong emphasis on volitional attitudes (Einstellung, intentional,1 which, we think, correspond to Pfahler's "perseveration". In the following pages we shall elaborate this statement, With regard to "nerseveration" Wiersma has reached exactly the opposite conclusion to that of Kretschmer. Pfahler, corselves and others. We must therefore

Störring, Psychologie; Shawson, Famili soul Augst; Typologie der Ergagemenn.

discuss the value of this as well as same other results: reached by Wisciana on the basis of his "enquêtes". In this connection we shall refer to Jung's typology which seems to support that of Kretschner and to contradict Wisciana's results. In the chapter on the biophysiological basis of the "Triangle of Temperaments", we shall outline our relations with the endocrine types of Berman.

46. Relations between Jacouck and Kretschmer

W. Jaenach, though very critically inclined towards Kretschmer's method III approach, viz. by way of the higher processes (feelings, intentions, thinking, etc.), and K's "crob sometischen and "anatomischen Habitus" and anthropometric types, admits a partial correspondence ("Berührungspunkte") belween the typologies. The following statements by W. Isensch. prove this ": " B-types . . . are also found in pyknica, as, in fact, certain traits of the B-rune occasionally remind one of mental structures escribed by Krotschmer to the pyknic and eycloid persons; especially, the coherence with the environment, and the strong emotional rapport of the B-type reminds one of the subtle, emotional resonance to the stimuli of the environment which K, has demonstrated in cycloid persons. Similarly, the fluctuating moods of the B-type remind one of the behaviour of evaloids". "The T-type is obviously inclined to show definite 'schizoide' traits in the sense of Kretschmer; moreover, the T-type seems to exclude pyknic qualities and, according to our experience, is very easily found in combination with so-called 'astheric' and athletic physique types, e.g. in sportsmen of the athletic as well as the asthenic type—the latter being very frequent in long distance runners". "The severance (disintegration) of the T-type from the environment", " still ever a point of contact with certain qualities of 1.'s

M Jaerach, Grandelge einer Physoelogie und Khinie der Psychophysiehen Prestalicifant, Berlin, Bills, pp. 289, 381, 184, 48.
Grandelge, HJ, and SE. Also campane Eweld, ep. 46, p. 60.
2

schizothyme form.". "Nobody can escape the impression that, with regard to K.'s types, the B-type according to our description seems neaver to the cyclothyme form of K., the T-type neaver to the schizothyme form of K.'. Jaensch very definitely states, however, that Kretschmer's types "are no fundamental biotypes" and can by no means be considered as completely corresponding to his own types. With Bunkle he deprecates the "genial artificial" connection between schizoid and schizophrenia, Burthermora, he emphasizes that rough anatomic, somatic, and anthropometric orientations, as used by Kretschmer (atructures versus functions), have long been overcome by inner medicine.

As shown by us previously, the Taensch school at present deals just as much with the higher mental levels (amotions. intentions, images, etc.) as with the lower levels (sensations, eidetic experiences) with which they started. In this respect they are now on a par with Kretschmer. Jacusch has also brought his types in relation with the clinical forms of Tetany (- T-type), and Morbus Basedow (se B-type). He has admitted that the normal and disease forms are connected by flowing transitions, and that the clinical extremes may be profitably used to discover the stigmata of the normal types. Finally, he has indicated the intimate relations between the B-type and hyperthyroidism, the T-type and parathyroid deficioncy. By admitting these endocrine relations, Jaensch indirectly admitted the possible correlation between physique types and his own types, because it is cenerally accepted that endocrine functions and bodystructure are capsally related.2 We are therefore unable to see methodological and other fundamental formal differences between these typologies.

We shall give some quotations from writings of the Jacusch school to prove that the B-type almost coincides

¹ Ob. 46., pp. 59, 67, 146, 411, 418.
¹ Yeade, Peruga, Bergimann, Figell, Schtfier, Ebbocke, etc. The structure and anatomized proportions are just an changeable or fixed as the protrustes of the eyes and fundamentally just as much a "tancion" at the shining of the eyes.

with the evoluthwine of Kreischmer, and the T-type almost coincides with the achizotheme, as we have described them :-

H-tube (Intervalval)

"There is nothing stiff in his life." "His whole life is an expression of his instrument being; his speach. movements, thinking and even his shining eves and spirited body ". "Seelische Durchdringung aller Functionen".1 The motility of the B-type-not so very sure as that of the T-type, but "overflowingbright, often only easy-graceful, or again, restlessquickellvery, and in medium limits, rhythmic-harmonlously-rounded", "soft flow of movement rhythms frictionlessly merging into one another". His sport "is expression of boundless exaltation. In the man is a child who wants to play "." "Active momentattitudes" as remoired in a sperited salon talk, but finds it hard to reach an "active aim-directed, intentional or volitional attitude"; "not bound by persistent attitudes"." "The motivation of his acts II very changuable, and with each new stimulus he develope a new reaction-impulse which permeates his whole ego. In this way his reactions resemble an alternating current ". Timacity and persistence are hardly found in their sport. they excel rather in admistness and flexibility. Their sport activity is neither purposeful, nor determined by objective aims but determined by "feelings, emotions and inner rhythm". "He finds it very difficult to perform mechanical work under the guidance of a definite idea of aim." 4 The integrated type is opposed to abstract thinking in so far as it is senarated from concrete things." "He does not love abstract logical systems." " Moods labile and finctuating." "The most prominent

¹ Op. sii., pp. 1812, 356; Well, Zeitt, f. Physik, Bd. 1839, p. 242. 5 Gradifies, p. 141; 1865; primare, op. cit., p. 39. 7 Gener, op. or., pp. 185, 285. 8 McKesimana, op. cit., pp. 36, 30. 49. 1 Comer., op. di., p. 184.

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and governing feature of the B-twoe is the hyperexcitability of the veretative nervous system which is very intimately connected with the emotions and moods."

"Preponderating happy and jovial mood naually with depressive phases of short duration only." "Changeable moods." They are emotional personalities. but with a strong emutionally determined concentration of the attention and up intimate interseaving of feelings with the contents of percention and thinking." 1 "The complies activity of the Intercated type is governed by the emotionally-toned coherence between Ego and 'Unwelt': that of the Desintegrated type by a nonemotional attitude (Stellung) towards the object," "The moods often change apontaneously with the environment. In such a mood the Integrated type builds a momentintegration, a complete harmony, with the environment : but the mood may change directly with a change of anvironment.7 just as the person himself may then directly become a different one." "In the Interrated there is not the sharp distinction between the issuer and external world as in the Disintegrated." "It is as if invisible ties bind me to the green object." "Very maive, given up to the object." "When perceiving a form which appeals to my feelings, if it is a landscape, an animal, a humanbeing, a face. I go over it with my eyes, and this is accompanied by the same feeling as a caressing stroking," "Social attitude ": pleasent and obliging"; "almost physical radiation of spirited contact "; "open, cheerful face"; " freudiger naiver Mitteilungsdrang und gröttte Offenherzigkeit,"" frank and sociable," "diverse interests,

tickness of ideas and quickly befriended with everybody." " noted for their 'essuit' in salon talk," All these characterizations munistakably apply also

Op. 101., p. 144; Michelmann, ep. 16., pp. 36, 48, 31; Ower, op. 16., p. 321.

^{*} Open, yp. 199, 147; Well, ep. cit., p. 262; W. Jacosch, Grand-ries, pp. 147485, 288, 228, 228.
L. 180, p. 38; Del. 199, p. 38; Del. 199, p. 38; Omer, ep. cit., p. 187. Möderheume, ep. cit., p. 25; W. Janneh, ep. cit., 145; *Over, ep. cit., pp. 102, 123, 230; Mochabasan, ep. cit., p. 52; Grandrig, p. 163, 205.

to the average cyclothyme as described by Kretachmer and his school. The evidence in favour of an almost complete identity between the cyclothyme and the Integrated or B-type is furthermore supported by the following facts: Tacouch 2 remeatedly admits the intimate relations between the Basedownid (from which the 8-type) constitution and the Manie-decressive constitution (from which the cyclo-type "): "The Basedow is quicksilvery. from this the frequently drawn parallel (Zichen) between Mania and Basedow," "According to Sattler the manicdepressive insanity is the most frequent of psychoses. ancompanying Basedow." "The maric and psychoerethical nature of the B-complex with its cyclic psychical phases." Also on the somatic side there are many similarities, although the antagonism of W. Isquich against " grob somatische Structur-Typen " descriptions, makes comparisons difficult. The thick neck, shining, spirited eves with some tendency to shallowness and even protusion bellborum, well-circulated velvaty skin. youthful features, etc., so characteristic of the B-type. are, as we have described previously, just as common stirmata of the pylmic babitus.

The T-type (distintegrated).

"Expression of pensiveness and concern": reserved. unobliging, motionless seatures, with sober, oold, matt, unspirited eves; skip fromently pale, and bad circulation. "trowning forchead" (Tetany face); "the facial expression is anxious, merose brooking"; Motoric, "Stiffness or strictly to the point, recurred precision and sim-certain movements"; in some pathological cases motorical monotony or also clumsy, top-beavy movement co-ordination; "angled, edged, as if abrupt interference of exact healte levers."3 Attitude towards environment ": "glass wall, sometimes intensified to

Grandeige, pp. 323, 418, 429, 437, 446, atc. 1 99, ed., pp. 106, 106, 108, 111, 1 99, ed., p. 141, 2 9, ed., pp. 126, 144, 143. Mackelmann, aj. cik., pp. 48, 51.

an icy inaccessibility, in pathological conditions to complete anathy, duliness and non-emotionality, in normals sometimes manifested as offending coldness, in general pormality as a lack of personal-burnan contact (official attitude) "opens his heart to a few only"; "Separated from environment " (Integrationswiderstand 1 - Autism more or less); "not open and frank, but tendency to preserve distance, to solitude." "Reserve may be due to real emptiness or to a superstunitivity, already painful In his body, which impels subject to erect walls between himself and environment "; " such a sobor-plain, affections man may show a mimosa-like sensitivity." The mood of the T-type is uniform and generally rather depressed. Judgments and actions not determined by feelings and moment-attitudes, but by intentions (Vornahmeakt), firm, "active perseveration," aim-striving, durable organizations and attitudes: "his mind resembles a direct current " (as compared with the alternating current B-type). In sports: purposeful, tenacioes; cramped, enduring tensions."

W. Jasnisch * also mentions that : There are intimate connections between the T-basis and catatonic stupor, and also between the T-basis and certain prepaychotic, schlzophrenic personalities. Furthermore, faensch slaborates on the fact that epileptoid characteristics and persons certainly form a subtype of the T-type. This fits in very well wish recent developments II the Kretachines typology, which show the intimate relations between epileptoids and schiznids both atmatitally and psychically. We may still mention that on the physiclogical side facusch's theory regarding the parathyroid deficiency and vagotony of the T-type in harmony with our own theory regarding the physiological basis of the schisothyme type.

¹ Integration registance was emphasised by Ocur (sp. 1

Grandtiles, p. 145. ** McKelmann, opt. zik., pp. 15, 40; Oeser, pp. 217, 196, 228; Grindelfe, pp. 182, 491, 498. ** Grendelfe, pp. 288, 187. ** 69. zik., pp. 274, 185.

47. Plakler's Extension of Kretschmer's Twinlery-Personation

(a) Definitions.

Before we can discuss Plabler's views, we must endsavour to define the terms: Temperament, character, constitution, and personality. Such definitions are very tentative because very little agreement has been reached in this field. As long as such functions as " perseveration ", "tension", "Einstellung", "constion", etc., have not been completely explained, it ill impossible to differentiate between complex functions which involve them. Also our definitions are by no means original; they are effectic, and intentionally so; because we should first of all aim at uniformity and stability of terms even if at the expense of stymological or psychological correctness, Temperament, we take with Kretschmer' to include Affectibility (Affizierbackeit). Tempo and Intensity of impulse (Antrieb). The affectibility is multily represented by the psychesthetic proportions "sensitivity-duliness" and the distinctic proportions "exalted-depressed". The epileptoid proportions "Boundness-driven" have much to do with the intensity of impulse (Antrieb), and the psychesthetic proportions. "Antrieb" manifests in psychic tempo and psychomorility. The semperament seems to be closely connected with the neuroglandular system and the relations of the cortex in the subcortex, whereas the intellect seems to be closely related to the perebuil portex.

The character is a product of interactions between the individual impulses (instincts), temperament, and the sociological environment.* The character therefore includes primarily the sociological attitudes and seatiments. But as far as we can see, the ethical values, i.e. judgments with regard to aims, purpose, direction of striving, etc., in a normic system, are primarily concerned with character.3 The character, therefore, pertains primarily

Mod. Psych., p. 148; Physique and Character, p. 250.
 Med. Psych., p. 165; Physique and Castracter, p. 264.
 Mainhead, Elements of Ethics; Heymans, Einführstey ist die Elik.

to the aim-espect, purposiveness, or direction of the manifestation of social attitudes and sentiments.1 with special reference to their ethical value.

Constitution is defined by Kretschmer as 1: "The totality of individual qualities which depend on heredity. i.e. which have a genetypical basis." This definition is in agreement with that of Jacosch and Lubarsch.

Personality is perhaps best connerwed as including the Temperament, character, intellect and certain somatic qualities of an individual. Brundly stated, the personality is the total individuality in so far as he manifests himself in all social relations." Certain authors distinguish rigorously between physique and personality. seems to be correct in so far as the anatomical or anthropometric side of the physique is concerned. But the "imposingness" or "insignificance", etc., of the physique, together with so many aspects of motility, which are maniforted through the physique, certainly fall under personality.

(b) Perseverative-Associative.

In a well-reasoned, experimentally founded work, Pfabler criticizes Kretschmer's typology as one-sided, and andeavours to supplement it. He shows that In Kretschmer's typology the "affective-volitional side is distinctly and one-sidedly emphasised ". " it is temperament differences which for Kretschmer constitute the difference between the evelothymic and achienthymic types and which he places parallel with physique." * But

McDongtill and others have defined character as "a system of directed consider between the common constraints of arctiments in spirates of directed consider between the constitution of arctiments in stone hierarchical system 40m6ms of Psychology, 1928). The first definition lays ton little emphasis on the feeling aspect of character and the latter perhaps neglects the countries or active side of the and not review perhaps regions too commune or serve age or the character. Accordingly we trieff to do justice be both the constitue and the affective aspects by suying artitudes (by which we most forms of willing) and sentimeter (monutation centres of Seelings). Störring, Psychologis, pp. 181, 242.

Physique and Character, p. 251; Pfahler, op. cit., p. 160; Hoftman Charafteroufhaues, p. 168; W. Jamesch, ep. cit., pp. 61, 225.

1 J. C. Smuts, Arricon and Foundism, Limbon, 1927, p. 274. Smuts

emphasizes that for the actence of "personology" warrous aspects of the physique are also pertinent.

* Dr. C. Plabler, System der Typenbleen, 1929, Laguig, pp. 181, 162.

such qualities as the "lack of rigid, consistant thinking and long-thought-out systems and schemes" of the evelothyme cannot be explained only, and I the first place, on the besis of temperament in Kretschmer's sense. It is possible that innote forms of cognition and elaboration act determinatively on the forms of will and feelings,3 just as much as the will and emotional life influence the mind as a whole. Pfahler's aim is therefore to complete Kretschmer's analysis on the side of the mental appearable, i.e. of cognition, imagery and thinking specifically. What is more, he wants to "indicate the pre-eminent position of these latter factors in the constitution of innate types and developed personalities".1 He then goes on to show that "there is neither volition, nor attention, nor pleasure and unpleasure without sensations or images which carry them. or contain them, etc." The typical differences of coemition and elaboration in schizothymes and cyclothymes he wants to reduce # the opposites of "perseverative" and "stancistive" as worked out by G. E. Müller, N. Ach. Külps and their schools. This perseveration il very similar to the Secondary Function of Gross, Heymans, and Wiersma 2 Contents of consciousness which may be subject to this principle of perseveration are sensations, images, complexes of images, and also mental activities, attitudes, feelings and moods.4 He sooms to contrive perseveration as manifested in a form of intrenching feingrabent of processes, in conceition to the spreading or flowing-together manifestations of the associative function. Personalities who are more subject to the "perseveration function" would therefore tend to a system of firm images, oninions, ideas, between which there are no easy connections, and to consequential thinking and a critical analysis of new experiences with

G. Pfahler, sp. sid., pp.161 and 167.
 Pfahler, p. 191.

Fisher, P. 197, 803; C. Spearman, Abilihits of Man, 1687, p. 43; Philips, pp. 197, 803; C. Spearman, Abilihits of Man, 1687, p. 43; Heymans and Wirestin, sp. cal; Brogmann, Mathodon on Bagraphen; C. Cross, Dir. Zeedwide Schmalinfunction, 1688.

regard to their insertion in one or other of the image complexes.3 This convenients to the achite-type. Predominance of the associative function tends towards numerous connection-possibilities the evoking of a multiplicity of image complexes by the same stimulus, continual change of ideas and experiences, a loose structure of all connected images, easy and flowing imagery processes. Such is the cycle-type. On the basis of these fundamental differences in cognition and elaboration, as a result of "persaveration-association ". Pfahler proposes a partial explanation of such characteristic differences between the types as autism, humour, pedanticism, fanaticism, chearfulness, literary tendencies, etc. By very intenious experiments (senseful engagetions between words, blot interpretations, story-making, etc.) he shows further that schizethymes are definitely more aubject to "perseveration" than cyclothymes.

(c) Perseveration and Feeling-states.

The problem is not so simple and easily solved as Ptabler's theory of intrenching (chigraben) of all mental processes would make it. Storing has shown that in pathologically fixed ideas (obsessions), that fixed on and their contisees respectance in consciousness are due to feeling-states connected with the ideas. The feelings fixate the cognitive processes in consciousness. Moreover, Stdring has shown that feeling-states occupying a person's consciousness, not only not reproductively and fixatingly on those cognitive contents which originally produced the feeling-state or which were definitely connected with the feeling state; but a feeling-state acts reproductively and fixatingly on all cognitive contents which are connected with a similar fieling-state as that which at the time occupies consciousness. Accordingly,

Psycl. des gemechficher Gefahltentens, Henn, 1915 and 1902,
 Psychologie, Leipzig, 1823, pp. 184, 286.

the munic's pleasure feelings and emitted mood favour the reconduction and flustion of cognitive contents which are connected with pleasure-feelings. Melancholic patients only reproduce and have fixated in consciousness, ideas and images connected with unpleasure-fealines. The manic's "flight of ideas" (i.e. easy associative transitions, multiplicity of possible associations, chappenbility of Ideas and images in Plahler's sensel he explains thus: The exalted mood intensifies the feelines of pleasurein normal moods of medium intensity only-which are connected to various ideas and images. The increased number of cognitive contents connected with intense feelings of pheature manifests as increased interests in diverse directions. All the images and ideas whichas a result of the exalted mood-are connected with intense feelings of pleasure, are now ushered into consciousness by the selective reproduction and fixation of the ruling exalted mood Ideas and images connected with other types of feelings or moods are selectively inhibited by the robus exalted mood. Moreover, the pleasurable state of the mind goes parallel with an increased. blood aumply of the brain (Storving, Mossol, and therefore a greater metabolistic turnover. The result is a strong competition among the pleasurable images for a place in consciouspers and a rapid change, succession, of conscious contents. In a melancholic mood there is also fivetime of unpleasant ideas, but the change of ideas is less rapid owing to the lack of extremented interests -a privilage of pleasure states—and a low blood supply with a lowered metabolism. The teclines so characteristic of cyclothymen accordingly explain some of the fundamental cognitive peculiarities of cyclothymes.

(4) Personnation and Vulctional Attitudes.

In Störring's psychology there is, however, another very important type of firstion and "perseveration"

¹ Stätning, Psychologie, p. 190.

which we believe is very similar to what Piahler proposes. Störring t shows that in all attention processes there is a will-factor. In attention processes of adult human beings the actual attentive activity is preceded by some form of intention or act of will to attend. Such an intention may be defined "as an idea of some future activity by the subject " with which idea is connected feelings. sensations of tension and excitement. These feelings. etc., urge (impel, drive) towards the realization | the aim or future activity. In the attention process of adults we find that the actual attentive activity (i.e. thinking,

acrutinizing, etc.) is preceded by some form of an idea. or presentation of a future mental occupation with some object. During the process of attentive activity this idea of aim, idea of a future mental activity, recades into the background of consciousness and from there acts determiningly or constellatively on the contents of focal consciousness. The "intention" when it has receded into the background ("Sphere" of Kretschmer and Schilder) of consciousness, from where it functions determiningly, is called a "volitional attitude" or Einstellung by Störring, Skawran, and their school. Such attitudes are of primary importance for studies in personality. Old-standing attitudes influence new ideas of alm and accordingly acts of will. Our whole life is rully a constant interplay, releasing and establishing of "intentions" which recede into the background and from there act as attitudes. All the "perseveration functions" of Pfahler can be reduced to the functions

the functional significance of "directing motive". perseveration "eines Leitgedankens", perseverating invaceconstellation; "imere Einstellung (Aufgabe, Instruktion. Absicht, usw.)," "perseveration of instruction." The Prychalogie, p. 242; Shrungen, Esperimentolle Universehungen über den Willen; Furnit und Augul im frühre Kindescher; Typology

of intentions or attitudes. He indicates in various places

of Ergograms.

Mod. Psychologie, p. 87.

² Piabler, op. est., pp. 265, 245, 279, 279, 285, 285, 284, etc. The "Einstellung" of Streeting is identifical to Lewin's Quantification (Vorsale, Walte and Enthinform, Burtle, 1995).

schizethyma when presented with a task, forms an "intention " or " volitional attitude " and this structure has a strong functional influence on the succeeding contents of consciousness in so far as these contents are relevant to the attitude. In cyclothymes, however, intentions are relatively insignificant as compared with the following other functions: Emulional autmentions between contents of consciousness as explained above : emotional fixations without strong dynamic moment: contignal integration the environment francise attitudel: amociation. These conditions II the achizo- and evelothymes have been very well studied on the corresponding types of Jacasch and his school. tachistoscopic interpretation experiments Oeser has clearly shown the following 1: The Integrated (= cyclo-) type has a naive, given-up-to-the-object tundancy. influenced by feelings, moods, tramediate environment and overflowing associations (passive attitude). The Disintegrated (= schiso-) type on the other hand is determined by active attitudes which are based on "an act of Intention" (Vorsahmeakt). Both types behave according to attitudes in Orser's wider sense of the term. But the one is more a passive, recentive, intentionless, emotional, naive self-feeling attitude; an attitude whose intrinsic aim is harmony between the whole subject and the whole object (psychophysical integration). The other is a volitional attitude, a functioning intention, an aim-directed tension-state. In Osser's experiments it also became munifest that images may perseverate in the cyclotype. This perseveration, however, was not willed or intended, but, with regard to the ego, was a passive perseveration. In fact, this twoe had great difficulty in counteracting this passive perseveration of images by an intentional corrective attitude. But also with regard to the types of Kreischmer, Enke too has emphasized perseveration of "intentions".3

, pp. 210, 161, 229. Vide also, E. R. sotiam, "Witnesday Symposium, Chark (..., p. 161.

it., pp. 248, 254, also Kectscheser, Mail. Psych., p. 158.

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(a) Showan's Fundamental Attitude.

If may be contended that if "intentions" characterise all acts of attention, and if evolothomes are characterized by a lack " intentions" m our sense, the attention process of evolutivmes remains inexplicable. Without an extension of Storring's theory in this respect, this problem and also the problem of attention processes in children and animals would be unsolved. Skawran. however, has lately solved this. On the basis of studies of children he has shown that there is another attitude reaponable for attention processes, curiosity-under certain circumstances-fear, play, etc. This mechanism he calls "The fundamental attitude to appertuive (comize) changes, environmental and internal organic, and to adapt to them". The first aim of this instinctive or innets attitude is barmonious relations between the organism and the environment, both on the physical and mental planes (psychophysica) conjubrium or psychophysical integration). In the young child, the fundamental attitude is very pronounced. Failure to adequately appercuive or cognize a change is manifested in some or all of the following phases of prehminary adaptation: Fear (filight) : curjointy (accurring) : play and experimentation : etc.4 Adequate apperception or cognition is followed by more specialized adaptations according to the sex-. foodseeking-, fear-, anger-, gregarious-, or other impulses evoked. In the course of development-as Ach and Pfabler admit with recent to the perseveration of intentions 1-intentional attitudes (Skawran : general and special attitudes) develop as a result of formal and special intentions (acts of will). These volitional attitudes become more and more complex. It is fairly obvious that the naive easy, given-un-to-the-environment qualities of the

Bedwinst.

¹ Shawrian, Freedy and anget in frinken Rindersber, 1900.
² Shawria claims to lister found that there are difference in reaction or prelivalizing adoptation between leptonomic and pylinke infants: Leptonomics after stans threads, hindly turbinity, Pylining react more with self-equidicate onlysing, play, or experimentation.
³ Pinkler, p., roll, p. 283. Vide also Lawfin, Foundation, Wide with

cyclothyme has much in it of this " fundamental attitude " to establish nevelo-organic equilibrium with the environment. But a certain proof of the cyclothyme's extreme tendency to appeareive and impulsively finstinctively. emotionally, without intentional determinants) adapt to each new situation featernal or internal is given by the investigations of the Jacosch school: The following characterizations indicate definitely that the B-type (cyclothyme) is more subject to the fundamental innate attitude found by Skawran in only childhood, and the T-type (schizothymes) more subject to general and special Intentional attitudes.1 "The T-type is characterized by size-striving and high grade attention-tensions, the B-twos by reflex-like reactions in which consciousness takes a passive attitude," "Striving towards a coherence between inner and external world," in the B-type, "the typical tendency to bring all the objectively given into a senseful configuration with the momentary personality-cromsection." The psycho-physical integration, or tendency (striving, natural impulse, inclination) of the B-type to psychophysical harmony, is more or less identical to Skawran's "fundamental attitude to apperceive (cognize) and adapt to changes. This attitude, so strongly functioning in cyclothymes, makes them susceptible to distractions as van der Horst has shown 2 As. W. Jasosch repeatedly shows, the vegetative susceptibility (i.e. smotionality) of the B-type is intimutely connected with the tendency to psychophysical integration. In fact, Vegetative susceptibility, emotional (instinctive) adaptation, naive fusion of external and inner world, are only different aspects of the same fundamental biological complex. This biplogical complex is also present in the schize-group, but, relative to "intentional attitudes", in a much less pronounced degree. Similarly, intentional attitudes also have their indispensable functions in the mind of the cyclothyme: No thinking is possible without

¹ Centr, oj. cit.; Weil, oj. cit.; Milchelmann, oj. cit.; W. Jacasch, Grendstgs.
² L. van der Hernt, 2t. f. New and Populs, 36, 96, p.366.

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an intentional attitude. It is only a matter \(\bigcep\) " relative dominance". Jacouch and Kretschmer also emphasize this relative dominance with regard to their divisions.

We have analysed a volitional attitude as an act of will, an intention, receded to the background of consciousness whence it acts determiningly on relevant processes of consciousness. The representative complex is therefore not only images of sims, but connected with them are feelings, tensions and excitement. According to Störring's analysis, these latter processes are the real fixating agents. The relative permanency, functional persistence, "perseveration" of these volitional attitudes in the achizo-type may be due to the relative weakness of facilines. and emotions (vegetative stigmatization) in the schizes as compared with the cycles, and the relative predominance of tension and excitement in the schloos. But, as we shall see in the following chapter, it is possible that all these qualities are etiologically connected with a fundamental difference in the neural and endocrine make-up of these types.

(f) Conclusions.

Our conclusions are accordingly :-

(a) It is dangerous to speak of "parseveration" simply as such, because is the arhizothyme the real structure which purseverates assume to be intentional (special and gammal) attitudes.

(b) Images, sensations, and feeling-states may possibly have more "persoverative" tendency in the evoluthymes than in

the schizothymes.

(c) Such intentional (special and general) attitudes are not purely cognitive but always include a dysosain factor in the form of feelings, tensions and excitement. According to facts given by Sthering, these affective factors are the real fixative agent.

³ Storing, Psychologou, p. 200. Thinking in submeth, such as in the captiments of Edular (The Mesonsky of Aper. London) is also done optiments of Edular (The Mesonsky of Aper. London) is also done optiments. The task-summan probably remote our time perceptual level, i.e. depends on perceptions of concrete objects and not on images or ideals (£1 Storic, Alaman) of Psychology).

(d) Emotions and the companyating variative susceptibility have much to do with the flowing "association", and naive tendency to integration with the environment, as manifested in cyclothyznes.

[6] This disposition of cyclothymes seems to be due to a relative dominance of Shawan's fundamental attitude. Schraothymes are more subject to writtloud (special and general)

attitudes of a lone pessistence.

all. Wierzma's Investigations on Employality and Secondary Franchine.

The term "emotionality" is a very general one Which should mean the detree of suppostibility to feelings and emotions, i.e. organic sensations and their feeling-tones of pleasure and unpleasure (Storring). The degree of susceptibility to feelings and emotions is generally gauged from the intermination of feelings, etc., with cognitive processes.1 Wierszas defines emotionality as the smaller or greater excitability or affectibility (Aggerechbarkeit).1 This definition is fairly unsatisfactory because we found the leptosome to be excitable and the pvictio umotional. so that both could tand actually dol fall under Wierema's " emotional "

Secondary Function is a term derived from Groun's hypothesis of Cerebral Secondary Function,4 Le. the aftereffect or residual action of a nerve process. Wiersma. expisins Secondary Function as follows: "Rvery content of consciousness influences other contents which are thereby streambened or weakened in their action. Images. will processes, emotions, etc., are thereby evoked or weakened. But, even when that content has sunk beneath the threshold of consciousness, it still influences the actions, thinking and Feelines. The action during its

³ E. R. Jacobek has accommuted this mingling (Einwebung) of feelings with cognitive personant processing (cantendary) tracking in the S-type or fatelyment type which convergence to Kretochmer's cyclethyme (He-mon Weil, ed. ed., p. 222, p. 182, p. 185.

E. D. Wiesman, Amy J. Ang. Physik., Rd. 32, p. 185.

Otto Grean De Zemberds Solvandichmerter, 1982; Über Prycke
Totto Grean De Zemberds Solvandichmerter, 1982; Über Prycke-

Paik. Mindernartigheiten, Vicane, 1808.

 21. f. Ang. Payek., Sd. 33, pp. 146, 149.

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presence in consciousness is called its primary function. the after-effect of the content in question when it is no louger in consciousness is called its secondary function ". Wiersma and Heymons found that in some persons the primary function, in others the secondary function, predominates. This "secondary function" is probably fundamentally the same as the "perseveration" mentioned by Plabler. The real difference between secondary function and primary function randominance also becomes close from the following characterizations by Wiersma: Primary-functioning people more easily adapt themselves to all circumstances. They are more compromising, our mix with everybody, and are liked all round; they are more motile, impulsive, spontaneous, and basty. The secondary-functioning show uniformity and stability thinking and action; they are more persistently energetic, pensive, and manifest harmony in thinking and feeling. But their adaptability is ishibited, they feel themselves more solitary, they are not at home !! company, and create the impression of reservo and retreativeness. They are quiet, introverted (in sich gekehrt), and occupied with themselves. Heymans | gives the following qualities as typical for secondary function : "Difficult to become reconciled when estrapted persistent in affections"; clinging to old memories, habit-type; distant furure determines actions: actions consequent to the person's fundamental principles; not so much attracted by new impressions or friends; not fond of change, etc. Van der Horst,2 a pupil of Wiersma, maintains that in persons with a rendominating secondary function. there is a relatively constant complex of images in the background of consciousness which influence all the mental processes and accordingly give a definite uniformity and otherence to the mental existence. S. F. prevents hasty steps, superficiality, and incon-

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Barrippen.

1 L. v. d. Honst, Zeite. f. Hone. and Papels., 28d, 93, p. 884.

sequence. Unfortunately the Graningen school does not differentiate between the afteneffects of emotional. volitional, and cognitive successes. Van der Herst speaks of the persistent and mond in secondary-functioning individuals, as a result of a sad experience in the morning.

Wierama 1 has made an extensive study of the correlation of emotionality and secondary function with physique types. For this purpose he used the ouestionnaire or sucuets method and received are completed questionnaires from physicians in Holland. His results, from our point Il view, are startling: Pylmics were found to be nonemotional, secondary-hunctioning, and active. They accordingly belong to his phlegmatic type. Leptosomes are inactive, emotioned, and just as prech primary as secondary-functioning. Athletics are son-emotional, mediumly active and primary-functioning. The nonemotionality and secondary function of pyknics, the primary functioning of leptosomes and athletics and the emotionality of leptosomes, as found by Wierama, are therefore diametrically opposed to all the writings Kretschmer, Plabler, W. Jaensch, Enlog, and to our own esmerience.9

We submit that this serious discrepancy may be explained as follows: In emotionality Wiersma does not distinguish between, on the one hand, true emotions and feelings, which may overflow in the comfortable and the hypomanic pyknics, and, on the other hand, the nervous Irritability or excitability and sensitivity #1 the hypermathetic leptucomes. Moreover, such a term as "phlegmatic" is, as Kreischner has indicated," very vague and broad. The conductable pyknic is phlegmatic, yet beans with naive feelings of organic pleasure; the quiet melanchotic type is also phleematic, yet is always prope to deep sadness. The lame lentosome is phlegmatic too, in a sense, but his coldness is overt, often with trader

Zoil, f., Ang., Payek., Bd. 23, 1829, pp. 136-34.
 Vide, Mol. Psych., p. 186; Pikhier, ep. cit., pp. 265, 218; Enke op. cit.; Kertsphane, Physique and Character, pp. 136, 187, 185, 186.
 177, 134, 217, 239, etc. Os. pil., p. 178.

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sensitivity in his imperment sanctuary. The most calm. cold, feelingless phlerma is found in many athletics. Purely psychological terms without very parrow definitions or biological-clinical bases are entirely uscless III the study of types. That is why a pure neuchological typology is both of little value in practice and onen to daneerous inscommends. Wienersa's stoned weak point seems to be his method; the statistical and questionnaire method. His statistics contradict one another outragrously! in his correlations, between racial features and mental qualities he finds that accordary function goes together with fair eyes and hair (Nordics versus Alpinics), longheadedness, long face, tallness of body, long legs, etc. He says, moreover, "The nordics show the following sizna of secondary function : constancy in thinking and feeling, reserve and stiffness in society, tendency to isolate themsalves, inability to mix in a crowd, less noisy motility," The primary functioning of Alpinics teles the form of impulsive, lively, expectative natures, easy movements. fondness of company, great adaptability everywhere, and lability of moods and emotions. As already indicated, his statistics show the opposite when he correlates Kretschmer's types with secondary function : here he finds secondary-functioning in the short thick-set type and more primary functioning in the leptosomes and athletics. On one and the same page (page 152) of his publication, his tables contradict not only one another, but also his conclusions: Emotionality predominates in shortheads as compared with longheads as 60, 4 : 64, 9 : other questions relative to leastiness, excitability, etc., give abortheads s8, 8, and longheads 30, 9 for in terms of non-emotionality 45, 0:42, 6 respectively). This shows that the shortheads are more emotional and the impleads

more excitable. But Wissons never weathe contradiction.

^{*} For similar massion Kurt Schneider profess a "systemicas" typology and with Kortschnier and Klages starts against the mixing rypology and material and psychological types. Secological orientations are api to occur draw at this types with studied absociation (Dis Psychopathicsheen Psychopathicsheen

and simply says of the latter result: Also this table indicates that shortheads are more emotional than longheads. Apart from the statistics, the questionnaire method, wherein physicianes, almost without any training in paychology, are entrusted with psychological analyses, seems to be slightly conde.²

Van der Horst a too, finds secondary functioning to predominate in polytics as compared with leptocomes. In very technical experiments on the persistence of afteraffects of sensations, he proves his contention. We need only mention here that it II possible that separations "perseverate" in a positive form as "eidetic images" in certain types." Moreover, one cannot conclude that if sensations "perseverate" in an individual, volitional attitudes will also perseverate. We have to differentiate between Einstellungen, sensations, and feeling-states with regard to their perseveration. Van der Horst explains the mantal life of melancholics on the basis of their secondary functioning, but he never attempts to explain the hypomanic in terms of secondary function. In fact, manic pyknics all a serious disturbance to his theory. Van der Horst also contradicts himself; he found that schizos or leptosomes are more calculative and logical, plan their future very systematically; while pytnics have labile moods and do not think about the morrow, but live in the moment and the immediate covironment. Thisaccording to his own definitions shows secondary functioning in leptonomes and primary functioning in pyknics. He also contradicts Wiersma, because he states that emotionality is a predimonition for circular psychotis. the disease of the pulmics, and that schizus will certainly tall more in the group of non-emotionals; Wiersma, as we have already pointed out, found the opposite of this to be true.

¹ This point is strongly accommoded by Shawnin, Latherr Dublished

is form of toles, Pretoria.

Zi. f. None, and Psych., Bd. 23, p. 308.

Extensive experiments on them phenomena have been conducted by Weil (c). sit) of the literatus school. Yiek Outer's differentiation between active and passive perfeven-

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Wierama's findings with menud to the stronger emotionality of lentosomes as remenaced with that of pyknica, and the stronger secondary function of pyknics as compared with that of less names, are also contradicted by the writings of lume. who accepts a connection between his "introversion," and the achiao-group. This is in agreement with almost all modern psychiatrists: they take introversion to be a school-quality (Kretschmer, Carl Schneider, W. McDougaill) and extraversion to he a circular enable. But what is of importance for us is the fact that June indicates in great detail that the secondary-functioning type of Otto Gross corresponds more or less exactly to his own introverted type. i.e. Graz's secondary-functioning type = Jung's introverted type - Kretschmer's schize-type. This deduction is the more important if we realize that Heymans and Wierama took the concern of secondary function from Gross's writings and acknowledge the value of Gross's analysis of this fundamental quality.

⁵ G. G. Jung, Feyshological Types, London, 1932.
⁶ Kreinchmur, op. 487; C. Schneider, 49. ob.; W. McDougall, Online of Admermal Psychology, Landon, 1927.

CHAPTER IX

BIG-PHYSIDLIGGICAL BASES OF THE TYPOLOGICAL DESTRUCTS

an Historical

Particularly since the introduction into biology by Darwin of the concept of Evolution I and its immediate accessory theories, such as the onto- and philogenetic parallelism (Biogenetic Law of Hiicklei, senetic studies and explanations have received much attention. Child and animal psychology have been strongly influenced by the generic idea, while the wide application of the concept of Instinct in general psychology is another manifestation of it. But especially in psychopathology. the idea of genetic phases or successive stratifications (Schichtenbau) comes very much to the fore. The studies of Head and Rivers on successive regeneration of the protopathic and epicritic assembility were very important starting-points.* How closely the idea of genetic stratifications is bound up wish possibilities of successive destruction. and regression to earlier mental layers, can be well judged. from works as those of W. Jaensch and A. Storch. Especially Storch endeavours to explain psychopathy and many psychoses as a remaining at, or even a retression to parlier genetic phases.

Following the example of W. and E. R. Jaensch, we can in our own types also find certain analysies with. or partial incorporation of earlier, functional phases. This is especially valuable, because our types are real

H. Honning, Physiologis for Coppensest, Barlin, 1920.
 Compare Stanley Ball's proceds inciden.
 M. G. Rainer, Mall's proceds incident.
 M. G. R. River, National and the Oncommonses, Combridge, 1922.
 W. H. R. River, Institute and the Oncommonses, Combridge, 1922.
 W. J. Lamarth, Grambility: A. Sharth, The Endoubhoogsprings in the Psychopathologic Barlin, 1922.

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biotypes, and should therefore he reduced to definite higherical radicals. But we should not only give a broad putline of their correspondence to well-known biological phases: a more definite correlation with neuroglandular functions will collarge our possibilities of connecting up with other studies on endocrine trues repetally and in relation to delinquency in particular.1

no. Connections of the Cuclo-tube with Early Childhood

(a) Temperement.

In previous chapters we have intimated some correspondences of the cycles to early childhood. must at the outset, state definitely that the correspondence is by no means complete. The intelligence and sax-life of cycles are naturally on a fully adult level in so far as these aspects are not influenced by the temperament aspect of the personalities. But the following characteristics (majely temperamental and nometichumoral) certainly indicate some form of connection with the sarly childhood seastic phase; emotionality, lability of emotions : naive self-consciousness and self-feelings : easy, frank sociability; extraversion; perceptive thinking, identification (integration, absorption) with the environment; playfulness; suphory; lack of long-thought-out avatems: rudimentary volitional attitudes, or lack of perseveration of intentions; unreflectiveness; nucceptibility to distraction : tendency to colour preference

¹ Such as Howe of Paudo, Berman, Braitmann, etc.

¹ In connectives with perceptive thielding four-charitives Doubles,

² In connectives with perceptive thielding four-charitives.

Ch. Bulker dishors that the trinking of early childhood in in very intimate relation with prevention. This is not due to the villate institutive to abstract or to think in longical categories—but in a typically childhood activate. Buy publicity, on the other headt, there is the tendency to purely insural advances. Descriptions, longical achievanticism, often webood community perception in companied by Contract, perceptional thinking of cyclothysics in companied by Krotschnett, Med. Psych., p. 118. We should not there fact a Medical action of the contract Brain and Mind, New York, 1928; is better developed in cyclothymes and the pyracticial layer in mhimthyman (wite Ch. Buhlar, Das Sudirillers, p. 126).

instead of ferm preference. The motoric of the cyclos, as we shall presently see, definitely resembles that of early childhood. The shallow for even protruding) sparking eyes, youthful features, colour and texture of skin, etc., resemble the child's. A remarkable correspondence between the two is also evident in the physique: relative sine and shape of head, short neck, relatively long rump and short extremities, fat accumulation, nottness III the flat-lying head-bair and flexibility of joints.

Several investigators in constitution-typology have mentioned these correspondences. Mathes a definitely calls the pytonic women disa "pytonica". In sexually well-differentiated youth-type. The Jaersch school has repeatedly emphasized that psychophysical infagration in a youth-form and decreases with maturation, while "invariance" or psychophysical independence increases with age. Kretschwer himself when describing cyclo-types often speaks of "childlille", "nature", "natural" eff.

51. Cortical—unfourtical motility

F. H. Lewy on the basis of extensive investigations into the pathology of movements and mencie-tonus, has come to the conclusion that the cyclo-type of Kreischmer corresponds to hemiphlegia patients, in so far as their movements are strongly influenced and co-ordinated by writstum and thelamic centres. * Kreischmer, Jaenach, Enke, and Lewy show that the movements of cyclos

p. 20. Strata

¹ Mather, Hamiland der Françoikallende, Bd. 2, Hallbag und Beitz,

^{**} W. Jesneck, Grandelge, p. 257. Jesnech olim westloss several other similarities hel west early childhools and his E-1-pp., c.l. Irequest rymetchesias, you think destaure and nyes, diffuse spreading of trimulations, psychogous denderata in inflant testing (@samophity), etc. Vide also Z. K. Jessech, in gradings and E-minious, Zischey Liuv., 1954.

⁴ F. H. Leny, Lake on Toma and do Sangang, Scritz, 1823, to. 489, 516, 537.

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are monded, florid, exect the one waving into the other. with agenistic and automorphic function or alternating reflexed muscle contractions naturally and smoothly fitted into the movement continuity; collective. nattern, or mass-movements occurving the whole muscular system (Gesamortmororik) well regulated and harmoniously co-ordinated; in hand-writing a specific pressure and relayation.1 According to Lewy this exquisite co-ordination and regulation of part movements in a harmonious movement-system is the work of entra-pyramidal (subcortical) movement mechanisms in the Corous Striatum. He remarks that some of these characteristics can be observed in young children whose nymeridal (certical) motor tracts are not yet in full function." In bemichleria. where they also occur, the cortical influences have definitely been disturbed, but the corpus strictum and other subportical centres have been left intact. In precise valitional movements, cortically controlled, the cycles are not nearly as skilled as the leptosomes, whose collective movement co-ordinations, agonistic-antagonistic belance, again are very weak. The leptosome's movements, according to Lewy, correspond to that | paralysis agitana patients. who have an intact pyramidal (cortical) tract, but an interior or diseased subcortex.4 In the motorio of the cyclotype we have, therefore, a relative superiority of the subcorrical, estrictions functions and a colative inferiority of the cortical or povernidal functions.4 In this they resemble the period of early childhood, and are the reverse of the leptosomus.

Lewy, pp. 519, 665, 331, 632, 538; Paigs, op. cit.; W. Jacanch, Grandraje, p. 161; Kevtschwar. Mad. Psych. p. 193; Psychosa and Chemider, p. 161; Kevtschwar. Mad. Psych. p. 193; Psychosa and Chemider, p. 154.; I haver forequestly motion that is switning where a complicated collective moderane (Communicationis); inher place, pass leptonemas due made lives upon the coordinate the breaching, arm, body, hand, and fig provenance harmodology. Vide also Michimanus, ob. 40; and Schut. 1. Levy, pp. 170; 400; 466; 350, 451, 550.

1 Levy, pp. 170; 400; 466; 350, 481, 550.

2 Levy, pp. 170; 400; 466; 350, 481, 550.

2 Levy attil is "Adiabacheliases", pp. 150; 483, 897.

1 It is noteworthy that W. Jassech reaches the opposite view in his scepact. He makes the B-Type "wassistive wife particed" yet a

this respect. He makes the S-type - unmindice vigualized "yet a certical or certificant type, and the T-type a minor-thorn type. He atom in the respect is controlled by

52. Variation Stirmatination of Cyclobobe

The striatom which plays such an important part in the motility of cyclos, is also very closely connected with the autonomic (vegetative) nervous system and the emotions and feelings. In fact, the question has repeatedly been raised whether these nurts of the subcortex are motor or vegetative organs. The vegetative components of all emotional or instinctive spactions depend on this system. "In the phylogenetically very old Strictum all unconscious instinctive reactions-both motor and autonomic-are co-ordinated," says Lewy. The regulation of blood-sager, water-distribution in muscles, body tumperature. Ca-K-ion balance, metabolism, endocrina functions, etc., depend on senatum and thalamic cantres. The investigations of Cannon and Head have proved definitely that the organic changes accompanying emotions and feelings are very closely connected with the striatum. and thalamus. The structure, globes pallidum and thalamus, i.e. the diencephalon and the hasal ganglia, contain the highest centres of the autonomic nervous system and the extra-pyramidal (i.e. subcortical) movement co-ordinations. Cycles show both an exquisite extra-pyramidal movement-co-ordination and vegetative stigmatization or emotionality.2 I.e. the sub-cortical centres which co-ordinate and regulate collective (mass) movements, and which control organic changes accompanying emotions and feelings, respond promptly Lavey. Ower, op. cit., a student of E. H. Bareuch, in vary infantive appriments, however, also comes to the conclusion that the B-type acts and preceives according to a unifortical "Einstellung" while the T-type has a certical "Einstellung". Once accordingly contradicts

the T-type has a certical? "Einstelling". Osser secondingly owneredicts W. Janesch and supports over indergentation.

'Ruots, The Authorsmite Measure Sympon. Polinocychie, 1829, 23, 461. Levry, pp. 326, 462. Levry, pp. 326. Levry, pp. 326, 462. Levry, pp. 326,

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and profoundity to peripheral or contral stimulation in the cyclo-type. The authoritest relative to the cortex, the vegetative system relative to the cerebro-spiral system, therefore, seem to dominate functionally in the cyclotype. In the leptonomes, on the other hand, the subcortex and possibly also the vegetative system plays an inferior part, seems to be overgrown and physiologically inhibited by the cortex.

The deminance of the thalamo-striatum centres relative to the cortical, and of the vegetative system relative to the cerebro-spinal system seems also to be evident from experiments on errorvants. In extensive investigations on errograms of Kreischmer's types, Skawran 1 has found that the cyclotype is inclined to get a convex form of ergogram (vide Fig. 30s), and, when strongly mixed with athletic constitutional factors, a "high rectangle" form (vide Fig. 305). Unmixed leptosomes and athletics usually oull the triangle shape (vide Fig. 20d). The convex or rectangle shape of ergogram seems to correspond to relatively strong auronomic (emotional) components in the muscle performance (Kraftleistune) with a weak cortical component (attitudes). The triangle shape of ergogram, on the other hand, seems to correspond to allight autonomic components and a relatively strong certical component (volitional attitudes).

53. Structure and Functioning of Vagatation Norvous System

From these facts it is clear that a well-functioning thalamo-strictum-pullidum system, and, intimately con-

³ Typology of Engagement, 1938.

⁹ From introspective evolution we latter that present drawing the course curves curves a greatly expensioned stang finding processes while they were pulling. But the vegetative configurated is also evident from the similarity of those course curves with those of active fields at muscles when the sympachetic treath in attendance (Kente, 72s Autonomic Norwan Syntam, Philodophia, 1939, p. 389). If the sympathetic treath is not infunded in the sympathetic treath in not infunded out of the segments to charitims occur, the excess lead to show some of the temple shape.

nected with it, a hyperactive vegetative necessary system. characterize both the young child and the cycloconstitution-type. We may now investigate more closely this vegetative or automatic nervous system, which, as we found, plays such a prominent part in the make-up of the cyclotype and of early childhood. It has a characteristic structure and functioning.1 The impulse-conduction In the vegetative system is not along definite tracts, but is a diffuse one, spreading in all directions. The neurones of this system are connected in a network form, and the individual neurones are "syncytically" connected with one another, i.e. are more or less continuous. The impulse appears throughout the system on account of the relative absence of graded synaptic resistances. The vegetative system still shows much of the "all or none" principle of reaction as is the case with the protopathic reactions Rivers 1 Rivers maintained that the emotions also show something of this characteristic, they are generally massive reactions " with little graduation or discrimination according to the nature of the conditions by which they are produced". In cyclothymes, especially, this seems to be the case. They are either very pleasant or very mid. very enery or intensely afraid. Neurones of the cerebroapinal system are less dishasely connected : so-called "synhaptic" connections with synames between the naurones. These evpapses offer resistance to the mreading of impulses, and by their specific, graded resistance the impulses in the cerebro-spinal system are conducted along definite tracts, or according to well-demarcated, functional trees. Diffuse, wide, and easily spreading impulses, therefore, characterine the weretative system, while definite tracts, graded synapses, conduction of impulses in relatively small fields and definite, functional patterns characterize the cerebro-spinal system.

The young child, especially up to the eighth week after birth, has been observed by several investigators to

W. Jacouch, Grandelly, pp. 310, 236, etc.
 W. H. R. Rivert, Indiad and the Grammolous, 1972, p. 45.
 W. Jamach, pp. 317, 330, 343, 347, etc.

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manifest the synaptic or vegetative form | Impulseconduction in its whole nervous system, cerebro-spind, as well. Anatomically the infant's nerves correspond to those of the automomic or vegetative system, because the axis cylinders are to a large extent unstrung and unmyelinated. This condition of the infant's nervous system manifests in the following ways: A characteristic movement-play, pronounced numbral influences between all the synchronic functions of the organism, etc. W. Jaenach calls this neural condition the "primordial structure" or "archimensium".

54. The evelothome as still near the Syncytic Phase

W. Jaenach I has indicated the very remarkable correspondence between the diffuse and easy spreading of an impulse in the vegetative system and the flowing connections, easy, multifarious associations and lack of definite determinants in the succession of impose and ideas of his B-type (our cyclo-type). He also mentions the correspondence between the definiteness, well-demarcated, functional tracts and areas of impulse-conduction in the cerebro-spinal system, and the systematic. logical, stiff (stary) specession of images and ideas in his T-type (our schim-type). The contrasts, which Jamach draws here, are almost identical to those of Pfahler when the latter discusses the opposites "associative-Desseverative " in connection with his experimental studies of the Kretschmer types: In the schizo-type " a system of firm images, ideas, opinions, between which there are but scanty connecting bridges; scoordingly, a rectilinear thinking with always only relatively slight possibilities of off-reproduction, a sharp testing of newcoming contents with the view to fit them into one of the idea-complexes.":

¹ Grandelige, pp. 330, 345, 318. 1 Pinhier, Sychen der Typoniokron.

in the cycle-type "numerous possibilities of connection, evoling of multifarious image-complexes by one and the same stimulus, a continuous clauge of thoughts and experience, a loose structure of all connected images."

If we hear these facts in mind and also consider the vegetative susceptibility of the cyclo-type, their spbcortical movement co-antinutions, their ocsemblance in so many respects to early childhood, when the whole pervous system is still near the primordial vegetative structure, we can easily make the following conclusions: The whole narrows system of the syclo-type is functionally and in intrinsic structure relatively near the primordial suspicione or asmostic function and structure. That is why there are such intimate functional relations (intermingling) between the complive and motor cortical processes of the cyclo-type and their vegetative-autonomic (emotional) system. W. Jaensch comes to more or less similar complusions. But he accepts a close currenondance between the cortex and the sympathetic system and accordingly interprets his B-type as a cortiform instead of a subcortiform primordial function type. We accept the cortex to be in function and structure on the synhaptic urinciple.2 i.e. Teensch's cerebro-enigal ocinciple of function.

⁵ Jarrach, repeatedly speaks of "a kind of primerital" function. It The Payes, ever he has deflately compared the They with the printerfal "registrict" forth of committees. Bit afterwards for maghabically premise of a propher-registrative enterchain function type which must be showly differentiated from the primordial form (formeding), pp. 355, 359.

⁽Growdinge, pp. 286, 285).

It is very possible also that these structural and functional principles in the cortex differs in wargines beyon. We know that the principles in the cortex differs in wargines beyon. We know that the cortex of the property of

and structure, and different from that of the vegetative system. We probably have to conceive the relations in some such way as the following: In the cyclo-type, the fundamental vegetative or syncytic nervous structure and function form a narrow functional and structural fusion with the successive avalantic or cerebro-soint structural and tometioned phase: the revelop-spinal structural and functional phase retains, incorporates, or is intrinsically permeated by a large share of the earlier structural and functional phase in the cyclo-type. In the schize-type, on the other hand, the primordial or vegetative functional and structural phase is more completely overgrown and physiologically inhibited by the superseding ograprospinal functional and structural phase. Degeneration and destruction processes (as in schizophrenia), again, reduce the schizo-type to a purely primordial function, In the schloo-type there is no compromise, no fusion, between the two principles of structure and function, vis. synhaptic and syncytic: it is an "either-or" barroque contrast. In the cyclo-type the two principles are in functional and structural compromise, co-operation, fusion, or in whatever way one wants to express it. That is why evelor are so immune to schizophrenia.

Our hypothesis, though based on numerous observations. as well as on references to an extensive literature and the

Cambridge, 1822].

^[6] Kuner, The Antenione Navous System, Philadelphin, 1979, p. 48; Starring, Psychologie, p. 1615. In connection with a probable superiorly functioning grammine layer (perception) in the cyclothymas on thould also consider that both the young chief and the cyclothylus lackine fowards perceptus) (assebanisch) conceret thinking, while the achiev-type prefers formal legical schematerium. (Vida filed. Phyth., p. 113; Phythus and Changle; Ch. Hables, Los Sectoriches, p. 128;

are probably identical or similar to Rivers's "protopathic" and
"spiritic" sentiriblisy. This author's embedious of the two types
mails conducting, and his application of ther and pathological mestal conditions, may perhaps throw further light on our problem as well (W. H. R. Rivers, Japainet and the Unconscious,

^{**}W. Jacobb (Groundrips, pp. 882, 800) mentions that the vegetative nerves resist proteins of degenerations very long. He also explains achieophresia as a degeneration towards more primitive function-principles (wide also Elancia, a). cit., p. 400.

authoritative expositions of W. Jaensch, is as wet beset with difficulties. We have to find out more definitely which period at early childhood shows the clearest similarities with the cyclo-temperament. The problems of adult, fully differentiated sex-life and intelligence of the normal politic, disturb the analogy considerably. Yet one cannot belo describing the neknic temperament to terms of childhood mind, and constantly comparing the two biological cosmilexes.

55. Leidosames and Puberty

In previous chapters we have dealt with this relation so fully that here we need only touch on some aspects. In motility, autism, timidity sexual populisrities, etc., sto., the leptonome definitely manifests clear resemblance to early puberty as II is described by Ch. Bühler and Ed. Spranger.2 Such an intimate connection II also supported by many other facts and considerations which we have found in literature on human psycho-biology, but which I cannot discuss here. We need only refer to some of these; schizophrenia, the disease of the leptosomes, has long been regarded as connected with puberty (dementia praecox). Puberty is the period when the hypophysis takes over the central position in the neuroglandular directorate from the thyroid, thymus, Mc.4 In this early puberty period the flowing, rounded motility of the child breaks down and is succeeded by the unbalanced, left-handed yet cortically (pyramidally)

Kretschmer, Mal. Psyck., p. 48, mentions that according to Homburger there are three stages of motoric in early childhood of Montaggy fight we tries cauges of manages in any casiques of which the third shage, only, seems to conveyed 60 that of the cyclotype. This stage above grapeduleum, florangemen, and software.

*Ch. Ballet C. has Software in the conveyed of the proposition of the cyclotype for the conveyed of the cyclotype of Adelexence. Baylon, 1877. Ed.

Springer, Psych. 6277.

Adelexence. Baylon, 1877.

^{*} Asterones in previous chapters.

* A. Storch, Dye Exting Hangymannia in the Psychoputhologic, p. 11; vide shan Francia, Broana, Paritz, etc.

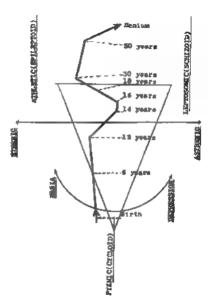


Fig. 43.—Contri of Districtingly of the Personality.

controlled motifity of the pubert.\(^1\) Jasusch mentions that ill early puberty the galvanic excitability of nerves and muscles reaches a sadden high-water mark, if compared with pre- and post-puberty canditions.\(^1\) This nervous excitability, which is such an important factor in the leptosome mind, has been observed by several investigators.\(^1\) Thus fundamental similarities all point to the fact that in the source leptosome constitution is large abare of the early puberty developmental phase has been retained.

15. Lettermer and Senium

There are frequent indications that septements show constitutional resemblance to the male involution and smile periods. Levy' mentions that the motility of paralysis agitume patients, which resembles that of the achizothyme, etc., also characterizes pathological senium. We have also observed many mental similarities between leptonomes and systeal old age: the store important ill the increase of excitability with old age.

These similarities are important in view of the following considerations: in section there is a de-socialization of the constitution, i.e. a transitional stage with regard to sex, just as in early puberty. There is, furthermore, a decrease in the functions of the thyroid and parathyroid endocrine organs. This would indicate that a deficiency of these organs corresponds to the schizo-constitution. On the somatic side too, there are rough resemblances between schizo and seamon.

We may view the connection in this way; the leptosumic sound and physique actually incorporate or

Kretschmer, Mad, Paych., p. 46.
 Grondnier, p. 349.

¹ Kliensburger, Patroint and Psychopathu, Westuden, 1914.

Shawran, Copulished Lathon.

retain a large share of the early pohertial developmental phase. They only reaemble the senious phase, which is to a large extent a regression (Abbau) to the ore-manhood transitional phase.

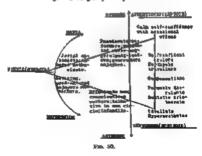
87. Atletics and Adult Masculinism

In a few instances in previous chapters we have referred to the athletic type as that of the typically adult masculinistic person. The whole relation, however, is very indefinite and posstinfactory; because, as far as I am aware, no scientific description of the typical, adult, masquine personality exists. I may just give a few general arguments which seem to support the relation between the athletic type and the true adult masculine form : Mathes; maintains that women who resemble athletics In physique are sound by gynacologists to possess abnormalities in their cenital occars and functions. From the days of the Greeks up to the modern film age, the athletic occourtions have been taken as the ideal male one. The endocrine organs which dominate in the athletic constitution, vis. amerior pituitary, adresal cortex, and male interstitist cells, are accepted by all endocrinologists to be those of the typical male.2 On the psychical tide the emential characteristics of the athletic also seem to be those of the typical adult musculine personality; Self-contained, non-emotional; broadly self-confident; calm temperament-matrix, which is now and again disturbed by a crisis of aggressive anger. The tensions, which appear strongly in athletics, are taken by Skewren to be the most prospounced between the area of 25 and 40 years of the average human-being. This also mints to the fact that athletics represent this period.

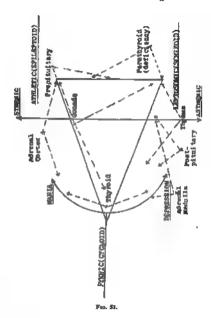
¹ Quoted by Th. v. d. Valde. its Restryibing non-dev Erhielyhin After, Leiden, 1927, p. 258.
¹ Pende, Besmen, etc.

With regard to athletics and adult mascalinity we may brither add that, just as in the case of pylanics, and any childhood, it is necessary to find exactly which period of manhood shows a source construct correspondence to the athletic type. On the basis of such more exact operations can may be able also to anxive at genetic sub-types. A vary interesting period is, what Ch. Beiblier? calls the "affirmative" [Bejahamaps] period in contrast with the "negation" period discussed previously. The affirmative "period stands at the beginning of manbood (± 17-42 years) and in its self-confidence, consciousness of freedom and energy, etc., certainly corresponds to some of the main characteristics of athletics.

58. Triangle of Temperament



1 Day September.



to. Co-ordination of Endocrines with Temberanous!

Authorities on the subject arrive more and more at the conclusion that the endnerine organs and nervous system are in reciprocal, functional relations. The nervous system. and centres certainly influence the functions of glands. That is why we elaborated the possible differences in function, inner structure and biological phase-specificity of the nervous materia of the cyclo-type and schisotype. W. Jagosch takes the entreme view that the neural differences and Ca-K-ions proportions are primary and the endocrine differences accordary. The differences in external, sometic conditions and authropometric proportions which again depend on the endocrines are. therefore-according to Jamuch-very mediately and distantly dependent on the true fundamental biotypical differences. He makes this a strong point of criticism of Kratachmer's theory. In spite of his antipathy against the andocrines, however, he definitely brings his B-type in relation to hyperthyroidess and his T-type to parathyroid deficiency. We do not think that Jaensch's view need by slaborated, since it has been definitely proved that glands as well as mervous conditions may be primary. i.s. they influence one another.3 In fact, Pende advocates the view that they form one system. But even if the endocrines are secondary in the etiological chain, they are the manifestations of the primary differences, and from A practical symptometic point of view, they are extremely important.

The schemes given in the previous paragraph must indicate how we have come to view the co-ordination of

¹ The works of Januach, Herman, Punile, six., evierred to in their page have often been quested provinganty. But we also rabe in the text to the full-toxing other voters: Perita, Englishming for its Allimit for inneres Schreiten, Burkin, 1922; Ethenke, Psycholyte and times tensions, Schreiten, Marina, 1922; Ethenke, Psycholyte in the inneres Schreiten, Na, Nagrasa J. Engl. Psych, Elman, 1927; Koutt, Autonomic Newvoux System, Philadelphia, 1926; Burkehoy, Endervine Medicins, Philadelphia, 1928.
¹ Januach, Grendinger and Parish Charles, 1922.
¹ Kyutt (gd., ed.), Poude, Benkehoy.

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the endocrine directorate with the differences in temperament. We need only repeat the warning, frequently attered by endocrinologists, viz. that the functions of clands must not be interpreted in italities or individually, The endocrines must abuses be looked upon as a constellation, an interlocking system, or, as Berman calls II " a directorate". It is always a polyplandular activity with sometimes one or two endomines predominating. Also, such factors as the Ca-K-ions aconortions in the system. are important for the resultant manifestations of endocrine activities. In our scheme the position of a gland, its distance from or nearness to a sometic or mental quality on the scheme indicates its importance, or otherwise, with regard to that quality. For instance, the parathyrold deficiency is more pronounced, and of greater significance, in leptosomy than in athleticism, therefore it is placed. nearer to the former than to the latter in our scheme After these general considerations we may indicate briefly what made as piace each of the glands in these positions of relative significance with regard to our biotypes.

Thyroid: Lacer, vivacious, prominent eves, rosy cheeks, anft well-circulated skin (Berman, Inswech); labile moods, mood psychoses, sossic, flight of ideas, impulsive (Berman, Jaensch, Ebbecke, Pende). W. Jaensch has brought his B-type, which we showed to correspond with K's cyclo-type, in relation to hyperthyroidism. So far the thyroid seems to be unequivocally connected with syclothymy. The coincidence is, however, disturbed by the fact that Pende takes his longituous to be hyperthyroid sometimes; and that Jacusch mentions the frequent thinness of hyperthyroids. We would explain this discrepancy as follows: the pylonic constitution does not depend solely on the thyroid (Jaensch admits the same possibility for his B-typel. Sub-pituitary and hyperadrenals are probably also necessary. Moreover, thinness with a hyperthyroid, frequently depends on a simultaneous hyperthymus and deficient gounds—conditions very often associated with hyperthymidism (Pentz, Kuntz, Jacusch).

Ademeis: It seems to us that the proportions of adrenal

cortex function and adversal medulla function are closely connected with the cualitation and demensive moods of evelothymy. The threcid is, of course, also implicated. Berman states that a predominant function of the medulla (adrenatio) goes with fear. This would explain the high blood-sugar a proportion (adversalin mobilizes blood-enear) usually found in affectively crumped catatonics and stuporous depressives. The adrenal cartex, on the other hand, is connected with anger, aggressiveness, salf-confidence, strong muscle topps and musculine saxuality. That is why, in our otherse, we have placed the adrenal cortex fairly near to the athletic constitution. But that this gland is not the main spindle of the athletic constitution is obvious from the fact that, the cortex type is not so tall and slender, athletics are not so hairy on the body as the cortex type, athletics are more calm and selfcontained and less practical than the cortex type. The adranal glands are certainly very intimately connected with emotions (Cannon, Berman) and the vegetative avatem.

Pre-pilestery: The anterior pituitary is connected with migraine, epileptic brain storms and acrospegaly (Berman, Perits). The sometic characteristics of a hyperpituitaryanterior type correspond almost exactly with the athletic physique as described by Kretschmer: Large, bony frame; strong, square protruding chin and jaws; nose broadish and long, with buny parts pronounced; arms and less hairy: thick skin, large sex onsans (Peritz, Berman, Pende, Kuntz, etc.). On the mental side, too, there are trany currespondences, as we have shown in previous chapters.

Parathyroid: The deficiency of this gland is connected. with an insufficiency of lime (Ca) in the system and a relative excess of potassium (K). This gives rise to a galvanic hyper-excitability of the nerves and muscles-

¹ Teamtra, Ekselerikowskille by Mahadalie as Sokicobirmie. Groninges, 1925.

¹t is notworthy that the advented glands and the thyroid all of which we have brought in connection with the pylanic constitution, are also large and well functioning gitains in early childhood.

a fundamental characteristic of the ochiro-type and Jaensch's T-type. Parathyruid deficiently gives rise to tetany, spannophily in children and (as Peritz says) persons who fall victims to schlasophrenia are always tetanoids. The typical parathyruid physique ill also identical with that III Kartschmer's leptosomes and asthenics (Peritz, Herman): pale skin; drawn stiff face (tetany face); this lips; deep-easted eyes; slender bodybuild; weak, atonic mosseles; this and delicate bones; arthenic thorax, and relatively long legs and arms. On the mental side, too, the most intinate relations imaginable easist between the tetany syndrome and the schlaso-group (Barroan, Jannech, Peritz).

Thymer: This gland, in so far us it is connected with the atatus thymico-lymphaticus is certainly significant for the leptocome coestitution. The status thymico-lymphaticus is the opposite of the masculinistic, adrenal cortex and male interstitual gland complex. It is very closely connected south early puberty, before it is uppressed by the cortex-interstitual complex, and is some persons it remains after puberty. The body-beild associated with it is that of the authenic heptocome. It is characterized by weak sexual endowment, frequent homesexuality, vagotony of Eppinger and Hees, introversion, shyneas, timidity, ferninnity, assity moved to bears (Peritz, Berman). Peritz also mentions that it is closely related with the parathyrold laudificiency or tetany construiries.

Post-orientery: This gland is also probably related to be processory (schizoidy), and to the more asthenic group of pylmics for the following vessors: It has to do with tender-heartedness, saggestbillty, sentimentalism, ferminism, sen-difficulties, according to Bernan. Its hormose (pituitrin) has the same action on blood-segar as that of the strete fear gland, adrenal roudalla (adrenalin); only, it acts more aloudy. It may therefore be related to the characterological fearmemeness and high blood-segar of the extatouries and pechane also of the melanolics.

The Generals: The male interstitial glands derive from the same embryonic layer as the adrenal cortex, the muscles and the hones, vis. the menoterm. It is natural. therefore, to find the sex glands in the male in close relationship with aggressive self-confidence, muscular people, such as the athletics and the hypo-manic pyknics. The leptusomes for schino-type in its purest form) being releted to the status thymico-lymphaticus and tetany, certainly have the weakest and the most aim-uncertain sex-impulse. The weak or abnormal aexuality of leptosomes and the significance of interatitul gland dysfunctions in the etiology of schizoidy have been emphasized by Kretschmer, Kronfeld, and others. It is for these reasons that, in our scheme, we place hyperfunctions of the male sex glands further away from leptosomy, and mearer to the hypomanics, and the athletic constitution. It must be noted, of course, that we are dealing only with males throughout this scheme.

With the help of these co-ordinations, between various of typologies, e.g. endocrina, eidetic, psychopathological genetic, etc., we shall provide our delinquency studies with a wider basis, as well as increase the number and the mitability of methods to establish more definitive.

psychophysical correlations.

60. Carl Hide's Typology 1

Towards the close of the ninescenth century Huter had already proposed a system of bio-types which on the paysical as well as on the meetall side is almost identical with that of Kretschmer. Unfortunately, he retained so much of Gall's "faculty phrenology" in his doctriese, and worked with so many unscientific theories, such as heliods, energy-radiations, psychophysiognomy, etc., that he has been relegated to the group of pseudo-spismiffic characterologistic. In fundatoriathals his theory unsumes to the following:

¹ Carl Buter, Elistriado Handlari, Reulta, 1828; A. Kupler, Grandlagos do problimina Mancheshauteta, 1928.

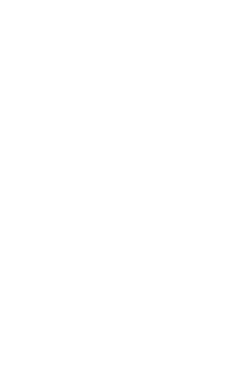
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there are three main bin-twees which depend on the relative hyper-development of each of the three primary germlayers, or embryonic layers: the ectuderm, the mesoderm and the endederm

From a hyperdeveloping estudents we get the slim body of medium height, weak muscles and fat; a hyperdevelopment of those parts which decive from the ectoderm. viz. the skin, retinary hair and the nervous system. This type (Huter's Empfanhmestypus) corresponds to the Insteadant. The second type, that of a hyperdeveloped mesoderm (Huter's Krafttypus), is characterized by such mesodermic derivations as strong muscles, heavy bones. good blood-system, dominating sex glands, etc. The third type (Huter's Ernäheungstypus) shows an accentuation of the endoderry derivations, such as the vegetative organs. and corresponds to the pylimic type. As already stated, his descriptions of the persperaments and physique of these twoes are very near to those of Kretschmer. His theory of embryonic layers is certainly extremely scimulating, and does not mern to be improbable, though as yet not sufficiently worked out. But there are also many difficulties to be overcome if the idea of an embryonic typology is to be rigidly carried through. The great incongruencies appear with regard to the functions of neuro-glandular avatems 1; the anterior-pingitary, so prominent in arbierio constitutions, derives not from the mesoderm, from which the benes and someties develop, but from the ectoderto. The adrenal costex, important for both athletics and pyknics, derives from the mesoderm. The sexual glands are also very strongly functioning in the pyknic type, although they derive from the mesodern. The vegetative peryous system itself derives entirely from the actoderm. although it is in close functional relation with the endoderm from the bearinging.

^{*} Bergap, at. cit.: Blott, Tile Intend Security Oregon, London, 1913. Levy, p. 355.





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